

SEQUENCE LISTING

<110> Arcturus Bioscience, Inc.
The General Hospital Corporation
Erlander, Mark G.
Ma, Xiao-Jun
Sgroi, Dennis C.

<120> Predicting Breast Cancer Treatment Outcome

<130> 022041-001420US

<140> US 10/773,761

<141> 2004-02-06

<150> US 60/504,087

<151> 2003-09-19

<150> US 10/727,100

<151> 2003-12-02

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<170> PatentIn version 3.1

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<212> DNA

<213> Homo sapiens

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<211> 60

<212> DNA

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<210> 31
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<223> Flurogenic MGB probe

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<210> 44

<211> 561

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<223> a or g or c or t/u

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<212> DNA

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gtctctgctg gtgncacat tgggtgctgg tggcagggat ctatctaag tggaggcacg 720

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<210> 49

<211> 946

<212> DNA

<213> Homo sapiens

<400> 49

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tctaattccg ggagacttga gggacctccg agtagaacct gttacaacta gtgttgcaac 180

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cttgttgaag gccaccaaga ttgtgtgac gggcaaaagc aacttccagt cctacagctg 300

tgtgaggtgc aattacacag aggccttcca gactcagacc agacctctg gtggtaatg 360

gacattttcc tatatgggt tccctgtaga gctgaacaca gtctatttca ttggggccca 420

taatattcct aatgcaaata tgaatgaaga tggcccttcc atgtctgtga atttcacctc 480

accaggaagc ctgtgggac cgaacatcac tgcttgaag aaagaatgag gagacagtag 540

aagtgaactt cacaaccact cccctgggaa acagatacat ggctcttacc caacacagca 600

ctatcatcgg gtttctcagg tgtttgagcc acaccagaag aaacaaacgc gagcttcagt 660

ggtgattcca gtgactgggg atagtgaagg tgctacgggtg cagctgactc catattttcc 720

tacttgggc agcgactgca atccgacata aaggaacagt tgtgctctgc ccacaaacag 780

gcgtcccttt cctcttggga tagcaacaga agcaagccgg gaggtggtg cctcttcttc 840

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<210> 50

<211> 488

<212> DNA

<213> Homo sapiens

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 aatgctacat tagttagcaa ttttgaaaa tttattggg ataaaatgtt ttaattacta 180
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<210> 51
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 51
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 ttagttaatg ctacattagt tagcaatatt tgaaaattt attggtataa aatgttttaa 180
 ttactaaggc tgttttagg ctgcatagta agcttcagga tcatcacacg tttttccct 240
 gtaattggtg gtagtaggaag ctttaaggt ctcttgctt tcatgggtgg gctacaagga 300
 gcagcagcca tcgtggcagg ctgtgatct ttttctgct gacacctgct gcttgacatg 360
 gagaagtct gcacagaaag cagtggcatc ctcatgagg tggtagtgg ggcagacact 420
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<210> 52
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 52
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aatgctacat tagttagcaa tatttgaaaa tttattgggt ataaaatgtt ttaattacta 180
aggctgtttg taggctgcat agtaagcttc aggatcatca cacgtttttt ccctgtaatt 240
gggtgggatag gaagccctta aggtctcttg cttctcatgg gtgggctaca aggagcagca 300
gccatcgtagg caggcttctg atctttttcc tgctgacacc tgctgcttga catggagaag 360
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attgtaatcg tctttgtat caatctctct aaagtagacc accacgtatt tgtgcagatg 480
aatctggctt cttagatcac tg 502

<210> 53
<211> 460
<212> DNA
<213> Homo sapiens

<400> 53
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agttaatgct acattagtta gcaatatttg aaaattttat tggataaaa tgttttaatt 180
actaaggctg tttgtaggct gcatagtaag cttcaggatc atcacacgtt tttccctgt 240
aattggtagg ataggaagcc tttaaggctc cttgcttctc atgggtgggc tacaaggagc 300
agcagccatc gtggcaggct tgtgatcttt ttctgctga cactgctgc ttgacatgga 360
gaagttctgc acagaaagca gtggcatcct tcatgaggtg gtacttgggg cagacactga 420
gagcattgta atcgcttttt gtatcaatct ctctaaagta 460

<210> 54
<211> 510
<212> DNA
<213> Homo sapiens

<400> 54
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aatgctacat tagttagcaa tatttgaaaa tttattgggt ataaaatgtt ttaattacta 180

aggctgttg taggctgcat agtaagcttc aggatcatca cacgttttt ccctgtaatt 240
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 gccatcgtgg caggcttgfg atcttttcc tgetgacacc tgetgctga catggagaag 360
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 aatctggctt cttagatcac tgcagaaaag 510

<210> 55
 <211> 465
 <212> DNA
 <213> Homo sapiens

<400> 55
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 catagaccat gcattgcagt gtaccagaa ctgtttagct aatattctat gttaattaa 180
 tgaatactaa ctctaagaac cctcactga ttactcaat agcatcttaa gtgaaaaacc 240
 ttctattaca tgcaaaaaat cattgtttt aagataaaa aagtagggaa taaacaagct 300
 gaaccactt ttactggacc aaatgatcta ttatatgtgt accacttga tgatttgga 360
 ttgcataag acctccctc taaaactag attcatatct tgattctgt acaggtgcct 420
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<210> 56
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 <212> DNA
 <213> Homo sapiens

<400> 56
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 acagttttaa ttgaaaacta taaccatttt gataatgcaa caataaagca tcttcagcca 180
 aacatctagt ctccataga ccatgcattg cagtgtacc agaactgtt agctaatt 240
 ctatgtttaa ttaatgaata ctaactctaa gaacctca ctgattcact caatagcatc 300

ttaagtgaac aaccttctat tacatgcaaa aaatcattgt tttaagata acaaaagtag 360
 ggaataaaca agctgaaccc acttttactg gaccaaata tctattatat gtgtaaccac 420
 ttgtatgatt tggatattgc ataagacctt ccctctacaa actagattca tatcttgatt 480
 cttgtacagg tgccttttaa catgaa 506

<210> 57
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 57
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 tgggtgggata ggaagccttt aaggctctct gcttctcatg ggtgggctac aaggagcagc 180
 agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctacttg acatggagaa 240
 gttctgcaca gaaagcagtg gcatccttca tgaggtggta cttggggcag aactgagag 300
 cattgtaac gtcttttga tcaatctctc taaagtagac caccacgtat ttgtgcagat 360
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 agttctc 427

<210> 58
 <211> 467
 <212> DNA
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<220>
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 <222> (434)..(434)
 <223> a or g or c or t/u

<400> 58
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 gagttagtat tcattaatta aacatagaat attagctaaa cagttctggg tacactgcaa 180
 tgcatggtct atggaagact agatgtttgg ctgaagatgc ttattgttg cattatcaaa 240

atggttacag tttcaatta aagctgtaat tgatttctat gtataaaca gctttgaagt 300
 tgtaaatgta gttccaatc gttagttaat gctacattag ttagcaatat ttgaaaattt 360
 tattggtata aaatgtttta attactaagg ctgtttgtag gctgcatagt aagcttcagg 420
 atcatcacac gttntttccc tgtaattggt gggataggaa gccttta 467

<210> 59
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 59
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 aagcctttaa ggtctcttgc ttctcatggg tgggctacaa ggagcagcag ccatcgtggc 180
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 aagcagtggc atccttcacg aggtggtact tggggcagac actgagagca ttgtaatcgt 300
 cttttgtatc aatctctcta aagtagacca ccacgtattt gtgcagatga atctggettc 360
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<210> 60
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 60
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 taatgtaca ttagttagca atattgaaa atttattgg tataaaatgt ttaattact 180
 aaggctgtti gtaggcttgc atagaagctt caggatcac acacgtttt tccctgtaat 240
 tgggtggata ggaagccttt aaggtctctt gcttctcatg ggtgggctac aaggagcagc 300
 agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
 gttctgcaca gaaagcagtg gcacccctca tgagggtgta cttggggcag aactgagag 420
 cattgtaac gtct 434

<210> 61
<211> 416
<212> DNA
<213> Homo sapiens

<400> 61
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cgtggcaggc ttgtgatctt tttcctgctg acacctgcta ctgacatgg agaagttctg 240

cacagaaagc agtggcatcc ttcagtaggt ggtacttggg gcagacactg agagcattgt 300

aatcgtcttt tgcataac tctctaaagt agaccaccac gtatttgc agatgaatct 360

ggcttcttag atcactgcag aaaagggtta aggcaagggg gaagaggtct tgagag 416

<210> 62
<211> 414
<212> DNA
<213> Homo sapiens

<400> 62
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ttaatgctac attagttagc aatattgaa aattttattg gtataaatg tttaattac 180

taaggctgtt tgtaggctgc atagtaagct tcaggatcat cacagtttt ttcctgtaa 240

ttggtgggat aggaagcctt taaggctctt tgcttctcat ggggtgggcta caaggagcag 300

cagccatcgt ggcaggcttg tgatctttt cctgctgaca cctgctgctt gacatggaga 360

agtctgcac agaaagcagt ggcacccctc atgaggtggt acttggggca gaca 414

<210> 63
<211> 409
<212> DNA
<213> Homo sapiens

<400> 63
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cagcagccat cgtggcaggc ttgtgatctt tttctgctg acacctgctg cttgacatgg 360
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<210> 64
<211> 414
<212> DNA
<213> Homo sapiens

<400> 64
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taattaatga atactaactc taagaacccc tcaactgatt actcaatagc atcttaagt 240
aaaaaccttc tattacatgc aaaaatcat tgttttaag ataacaaaag tagggaataa 300
acaagctgaa cccactttta ctggaccaa tgatctatta tatgtgtaac cacttgatg 360
atttgattt gcataagacc ttcctctac aaactagatt catatcttga ttct 414

<210> 65
<211> 414
<212> DNA
<213> Homo sapiens

<400> 65
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aattaatgaa tactaactct aagaaccct cactgattca ctcaatagca tcttaagtga 240
aaaaccttct attacatgca aaaaatcatt gtttttaaga taacaaaagt agggaataaa 300
caagctgaac ccacttttac tggaccaa atgatctatt atgtgtaacc acttgatga 360
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<210> 66
<211> 484
<212> DNA
<213> Homo sapiens

<400> 66
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gataggaagc cttaaggctc tcttgcttct catgggtggg ctacaaggag cagcagccat 180
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cactgggact gccctcgctc ttgccacagg taccatcgca cacactgttg acgtcattgg 480
aaag 484

<210> 67
<211> 398
<212> DNA
<213> Homo sapiens

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ccatcgtggc aggcttgtga tcttttctct gctgacacct gctgcttgac atggagaagt 360
tctgcacaga aagcagtggc atccttcatt aggtggta 398

<210> 68
<211> 401
<212> DNA

<213> Homo sapiens

<400> 68

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tggtgggata ggaagccttt aaggtctctt gcttctcatg ggtgggctac aaggagcagc 300
agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
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<210> 69

<211> 392

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (228)..(228)

<223> a or g or c or t/u

<400> 69

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agccatcgtg gcaggcttgt gatcttttc ctgctgacac ctgctgcttg acatggagaa 360
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<210> 70

<211> 386

<212> DNA

<213> Homo sapiens

<400> 70

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<210> 71
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 71
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<210> 72
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 72
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386

<210> 73

<211> 373

<212> DNA

<213> Homo sapiens

<400> 73

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ggctgtttgt aggctgcata gtaagcttca ggatcatcac acgttttttc cctgtaattg 240

gtgggatagg aagcctttaa ggtctcttgc ttctcatggg tgggctacaa ggagcagcag 300

ccatcgtggc aggcttgtga tcttttctt gctgacacct gctgcttgac atggagaagt 360

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373

<210> 74

<211> 403

<212> DNA

<213> Homo sapiens

<400> 74

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agttaatgct acattagtta gcaatatttg aaaattttat tggataaaaa tgttttaatt 180

actaaggctg ttgtaggct gcatagtaag cttcaggatc atcacacgtt ttttcctgt 240

tattggtggg ataggaagcc tttaaggtct cttgcttctc atgggtgggc tacaaggagc 300

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403

<210> 75

<211> 457

<212> DNA

<213> Homo sapiens

<400> 75

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 tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct ggcttcttag 360
 atcactgcag aaaagggttaa aggcaagggg gaagagggtct tgagagttct cactgggact 420
 gccctcgctc ttgccacagg taccatcgca cacactg 457

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 <211> 365
 <212> DNA
 <213> Homo sapiens

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 catagaccat gcattgcagt gtaccagaaa ctgttttagct aatattctat gttaattaa 180
 tgaatactaa ctctaagaac cctcactga ttactcaat agcatcttaa gtgaaaaacc 240
 ttctattaca tgcaaaaaat cattgttttt aagataacaa aagtagggaa taaacaagct 300
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 gttaatgcta cattagtag caatatitga aaattttatt ggtataaaat gttttaatta 180
 ctaaggctgt tttaggctg catagtaagc ttaaggccca tcacacgttt ttccctgta 240
 attggtggga taggaagcct ttaaggctc ttgcttntca tgggtgggct acaaggagca 300
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<210> 78
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 aacgtgtaca aagtttaggt tcagaccccg ggagtcttgg gcacgtgggt ctcgggtcac 180
 tggttttgac tttagggctt tgttacagat gtgtgaccaa ggggaaaatg tgcatacaca 240
 cactagaggt atgggcgaca cganaacgaa cggaaggtt tggctgaagt aggagtcttg 300
 gtgagatttt gctctgatgc atggtgtgaa ctttctgagc ctctgtttt tcctcaagct 360
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 <211> 394
 <212> DNA
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<400> 79
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 cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca tcgtggcagg 180
 cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct gcacagaaag 240
 cagtggcatc cttcatgagg tggctactgg ggcagacact gagagcattg taatcgtctt 300
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 gatcactgca gaaaaggta aaggcaaggg ggga 394

<210> 80
 <211> 437
 <212> DNA
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<400> 80
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 ttgtgatctt ttttctgctg acacctgctg cttgacatgg agaagttctg cacagaaagc 240
 agtggcatcc ttcatgaggt ggtacttggg gcagacactg agagcattgt aatcgtcttt 300
 tgatcaatc tctctaaagt agaccaccac gtatttgcgc agatgaatct ggcttcttag 360
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<210> 81
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 81
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 ggataggaag cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca 180
 tcgtggcagg cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct 240
 gcacaaaaag cagtggcatc cttcatgagg tggctactgg ggcagacact gagagcattg 300

taatcgtctt ttgtatcaat c

321

<210> 82

<211> 321

<212> DNA

<213> Homo sapiens

<400> 82

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ggataggaag cctttaaggt ctcttgcttc tcatgggtgg gctacaagga gcagcagcca 180

tcgtggcagg cttgtgatct ttttctgct gacacctgct gcttgacatg gagaagttct 240

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<211> 314

<212> DNA

<213> Homo sapiens

<400> 83

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cagaactgtt tagctaatat tctatgttta attaatgaat actaactcta agaacccttc 180

actgattcac tcaatagcat ctttaagtga aaaccttcta ttacatgcaa aaaatcattg 240

ttttaagat aacaaaagta gggaataaac aagctgaacc cacttttact ggaccaaatg 300

atctattata tgtg

314

<210> 84

<211> 286

<212> DNA

<213> Homo sapiens

<400> 84

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atgctacatt agttagcaat atttgaaaat ttattggta taaaatgttt taattactaa 180

ggctgtttgt aggctgcata gtaagcttca ggatcatcac acgttttttc ccctgtatgg 240

gtgggatagg aagcctttaa ggtctcttgc ttctcatggg tgggct 286

<210> 85

<211> 333

<212> DNA

<213> Homo sapiens

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atncactnct ttctgtgcag actnnncatg tcaagcagca ggtgtcagca ggaaaaagan 180
cacaagctcc ncatggctg ctgctcctg tagcccncca tgagaagcaa gagncttaa 240
ggcttctat cccaccaatt acagggaaaa acgtgtgatg acctgagctt actatgcagc 300
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<223> a or g or c or t/u

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 taatgctaca ttagttagca atattgaaa attttattgg nataaaatgt ttaattact 180
 aaggctgttt gtaggctgca tagtaagctt caggatcatc acacgtttt nccctgtaat 240
 tgggtgggga tagggaagcc cttaagggt ctcttgcttc tcatggggtg gggcctacna 300
 agggagcagc cageccatcg tggccagggc cttgtgganc cttttccct gcctggacac 360
 cctgcctgcc ttgaccatg gggaggaagg ttctggcacc aggaaagcca ggtggcccat 420
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<210> 87
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 <212> DNA
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 <223> a or g or c or t/u

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 agttagtatt cattaattaa acatagaata ttagctaac agttctgggt acactgcaat 180
 gcatggtcta tggaagacta gatgttggc tgaagatgct tttattgtg cattatcaan 240
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<210> 88
 <211> 265
 <212> DNA
 <213> Homo sapiens

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 <223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

<400> 88
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atgctacatt agttagcaat attgaaaat tttattggta taaaatgttt taattactaa 180
ggctgtttgt aggcgcata gtaagcttaa ngatcatacn cacgttttc cctgaatttg 240
gtgggataan gaagccttta aaggt 265

<210> 89
<211> 350
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tctcttgctt ctcatgggtg ggctacaagg agcagcagcc atcgtggcag gcttgtgatc 180

ttttctgc tgacacctgc tgcttgacat ggagaagttc tgcacagaaa gcagtggcat 240
 ccttcatgag gtggtacttg gggcagacac tgagagcatt gtaatcgtct ttgtatcaa 300
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<400> 90
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 aacaggcgtc cctttccctc tggataacaa caaaagcaag ccggganggn ctgncctctc 240
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 aggcacgaaa ggatcaagaa gacttccttt tctaaccacc acattactgc cccccattta 360
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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tgagaactct caagacctct tcccccttgc cttaacctt ttctgcagtg atctaagaag 180
ccagattcat ctgcacaaat acgtgggtgt ctactttaga gagattgata caaaagacga 240
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tgcagaactt ctccatgtca agcagcaggt gtcagcagga aaaagattca caagcctgcc 360
acgatggctg cttgcttctt ttgtagccca cccatgagga agncaagaga ccttnaaagg 420
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aaaactgtaa ttgattncta tgtataaaac agctttgaag ttgtaaagt agtttccaat 120

cgtaggttaa tgctacatta gttagcaata ttgaaaatt ttattggtat aaaangtttt 180

aattactaag gctgtttgta ggctgcatag taagcttcag gatcatcaca cgttttccc 240
 ctgtaattgg tgggatagga agcctttaag gtctctngct tctcatgggt gggctacaag 300
 gagcagcagc catcgtggca ggcttgtgan ctttncctg ctgacacctg ctgcttgaca 360
 tgggagaagt tctgcacaga aaggcagtgg gcacccitca tgagggtgggt acttgggggn 420
 cagacactga ggagcattgt 440

<210> 93
 <211> 641
 <212> DNA
 <213> Homo sapiens

<400> 93
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 gtgggtgtct actttagaga gattgataca aaagacgatt acagtgtctc cagtgtctgc 240
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<210> 94
 <211> 468
 <212> DNA
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agattcatct gcacaaatac gtgggtgtct actttagaga gattgataca aaagacgatt 240
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 cagaacttct ccatgtcaag cagcaggtgt cagcaggaaa aagatcaca gcctgccacg 360
 atggccgctg ctctttagtag cccacccatg agaagcaaga gacctaaag gcttcctatc 420
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<210> 95
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agcaatattt gaaaatttta ttggtataaa atgttttaata tactaaggct gttttaggc 180

tgcatagtaa gcttcaggat catcacacgt ttttncctg taattgggtg gggataggga 240

agcctttaag gtctcttgct tctcatgggg tggggctaca agggaggcag gcagccatcg 300

tgggcagggc ttgtgatctt tttccctgct gacacctgct gcttgacatg gggggaaggt 360

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tacaatgctc tcagtgtctg cccaagtac cacctcatga aggatgccac tgctttctgt 300
gcagaacttc tccatgtcaa gcagcagggtg tcagcaggaa aaagatcaca agcctgccac 360
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attnccaccn atttacaggg 440

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<400> 97

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 caatggttt gaagaaatc agtgaagtaa caaattgtg gatggaaaca tattcagat 240
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 agggagtaac agcacaatac tccgtgaact tcggagccct ccaaaggaat actcaagggc 660
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ttctgtgcag aacttctcca tgtcaagcag caggtgtcag caggaaaaag atcacaagcc 180

tgccacgatg gctgctgctc cttgtagccc acctatgaga agcaagagac cttaaaggct 240

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gttaatgcta cattagttag caatattga aaattttatt ggtataaaat gtttaatta 180
ctaaggctgt tttaggctg catagtaagc ttcaggatca tcacacgttt tttccctgta 240
attgggtggg ataggaagcc ttaaggctc ctgcttctc attgggtggg ctacaaggag 300
cagcagccat cctgnggcaa ggctttgtgg atnct 335

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tctgtattt tctttattc gccacttctc aaggatgacc tcacttctgc aatggtttg 180
aagaaagtc agtgaagtaa caaattgtg gatggaaca ttttcagat gggtaaacca 240
caagaacctt aatggggggc agtagtgtg tggtagaaaa ggaagtctc ttgatcctt 300
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gtaaaccatc cctgacaaat gatcccttgc tagagaatgt cagctgagca ccaaggggcc 420

ttgttagtga cagcaaggac aaaacatcct gatgttcctt ttgaacacat cagctgaaac 480
 aactgatgc tctaaaccgt taactattta ttaatggggg aacataggtc tcaactcatg 540
 tacgaccagg ctggagtgca gtgggggtga acatcgacag acatagcaaa ccaccgatca 600
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 gccactttc aaggatgacc tcacttctgc aatggtttg aagaaattca gtgaagtaac 360
 aaatntgtgt gatggaaaca tatttcagat gggtaaacca caagaacctt aatggggggc 420
 agtagtgtgg tggtagaaaa ggaagcttc ttgatccttt ctgtgagagg agaaagc 477

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 <212> DNA
 <213> Homo sapiens

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 tatgtgttaa ttggctgttt atgtattgg taagacttcc agtcaacagt aggctattag 180
 aagttaagtt gtgggaaaat caaaggttat aggagatttt caactgcatg cagggccggt 240
 gccctcccca ctgtgttgtt caagggtcag ctgtactctc taagggttt gctaacttca 300

aaacatggag tatttgaata cagaaaccag agcatttaca tactcagctc aaggcagagc 360

tattaaaaaa actcctcttc tccatagtga ggaaaggaaa tacaaatgca tcctttgagt 420

catttgtgat gt 432

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<213> Homo sapiens

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<223> a or g or c or t/u

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gccgggangan ctgncgtct cctctgctg tctctgctgg tggccacatg ggtgctggt 120

gcagggatct atctaattgtn gaggcacgaa agggatcaag aggacttctt ttctaccac 180
 cacactactg cccccatta aggttcttgt nggtttaccc atctggaaat atgtttccat 240
 cacacaattt gttacttcac tggaatttct tcaaaacccat tggcaggang tgagggtcat 300
 ccttggaaaa gtgggc 316

<210> 105
 <211> 401
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 <213> Homo sapiens
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 <222> (274)..(274)
 <223> a or g or c or t/u

<400> 105
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 aggaagtctt ctgacccctt tcgtgcctcc acattagata gatccctgcc accagcacc 180
 atgtggccac cagcagagac agcaggagga gaggcagcca gcctcccggc ttgtctttg 240
 ttgttatcca gaggggaaag gggacgcctg ttntggggc agagcacaac tgtttccctc 300
 gtgcccgaat tcttggggc ttcgaggggc caaattccc tattaggtga ggctgtattt 360
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 <213> Homo sapiens

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 <223> a or g or c or t/u

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 <223> a or g or c or t/u

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<222> (483)..(483)
<223> a or g or c or t/u

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<222> (509)..(509)
<223> a or g or c or t/u

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ggtttctggt ccaagtttg acctaaacca tgtccatctt ctattaccag cactacaag 180
cactgtgaaa actgatcatg acaataagt aaaattgct acattaaaca tattgcctca 240
gccattacta agcgtccact tgtaaagctg gacacagttt ttactttatg ctccatttg 300
atttttatc cgtaagacat aaattagaag gcatgagggt gccctttaag gataatctgc 360
aaatatacac attttaata gtcattccatc tggaaatcgn tccaccattc caggggaagg 420
attccaggta ttgtgctgt ggtggaaata aagcattccc cngggaaaaa aaccatttta 480
tgnctaaata attaccacca ttaacctcnt ggggtt 516

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<211> 187
<212> DNA
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<400> 107
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tctattacat gcaaaaaatc attgttttta agataacaaa agtagggaat aaacaagctg 120
aaccacttt tactggacca aatgatctat tatatgtgta accacttgta tgatttgga 180
tttgcatt 187

<210> 108
<211> 156
<212> DNA
<213> Homo sapiens

<400> 108
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gaccatgcat tgcagtgtac ccagaactgt ttagct

156

<210> 109
<211> 491
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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tattattagc ataaatgttt tttctggga atgcttatt cacacagcac aatactgaat 180
cttctctgga atgtggatcg atttcagatg gatgactatt aaaatgtgta tatttcgaga 240
ttatccttaa agggccacct catgccttct aatttatgtc ttacggataa aaaatcaaaa 300
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caatatgttt aatgtagcca aattttactt atttgtccat gatccagttt ttcacagtgc 420
ttgttaagtg ctggttaatta ggaaggtggg acatgggtta ggtcaaaaact tgggaccnga 480
aaccaacttg n 491

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<211> 270
<212> DNA
<213> Homo sapiens

<400> 110
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catagaccat gcattgcatt gtaccagaa ctgttttagct aatattctat gttaattaa 180
tgaatactaa ctctaagaac cctcactga ttactcaat agcatcttaa gtgaaaaacc 240

ttctattaca tgcaaaaaat cattggttt

270

<210> 111
<211> 478
<212> DNA
<213> Homo sapiens

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tacacagaag ggaaaaaat acacagtgca aaatggatgt tctgagtgcc acaaggatct 120

gctgaaaaaa gccaaagatg taagatggct gggtatatat gagaatgaat atttactat 180

attctgattc aattaccagt ctcaaggccc caggatgagc ttttgggtg gtcacatggc 240

caacatttgg ataacaatg aggaataatg gtaccgcctc actagtcct gagaacagca 300

tgttctggaa aatgtctctg gagttagaga tgtgttagct tttcattac agatggagaa 360

atacaatgtt tacacaacag tccaggggtg gggtcaaaag ttggaagggtg tcattagacg 420

cagccaaata aagtgaagac aaccaggtg actggcagcc ctgacttggt cgtgggag 478

<210> 112
<211> 263
<212> DNA
<213> Homo sapiens

<400> 112
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acacagaagg gaaaaaata cacagtgcaa aatggatgtt ctgagtgcc caaggatctg 120

ctgaaaaaag ccaaagatgt aagatggctg ggtatatatg agaatgaata ttactata 180

ttctgattca attaccagtc tcagtggccc aggatgagct ttggtgggtg tcacatggcc 240

aacatttggg taacaaatga gga 263

<210> 113
<211> 388
<212> DNA
<213> Homo sapiens

<400> 113
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tgccaaagtg ctgggattgg aggcatgagc cactgcaccc acccctgttt ttttttaag 120
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 attattttca ttttgaacat gaaaagttaa atagtaacta agaaactgag aactctgaca 240
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 atgttaaaag gcacctgtac aagaatcaag atatgaatct agttttaga gggaaggctc 360
 tatgcaaata ccaaatcata caagtggg 388

<210> 114
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 114
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 gtaaaccatt ataataactc attataaaa aggttacttc aagagggtt tcaacttaag 180
 aattattttc atttgaaca tgaaaagtt aatagtaact aagaaactga gaactctgac 240
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 catgttaaaa ggcacctgta caagaatcaa gatatgaatc tagttttag agggaaggtc 360
 ttatgcaaat accaatcat acaagtgggt acacataaa tagatcattt ggtccagtaa 420
 aagtgggttc agctgttta ttcctactt 450

<210> 115
 <211> 162
 <212> DNA
 <213> Homo sapiens

<400> 115
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<210> 116
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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ttatatgtat aaccacttgt atgatttgggt atttgcataa gaccttcct ctacaaacta 180

gattcatac ttgattcttg tacaggtgcc ttttaatat tctgtgatga aatcggtcac 240

agtcagagta catgtctgct gcatatggga aatagggact gttgttctga gggacaaggc 300

actcaattca gccgtaaagg ctgacccggg ctacttttt tccangggaa tacaattttt 360

ttaccttga ataaatngg gcccgacngg ac 392

<210> 117

<211> 428

<212> DNA

<213> Homo sapiens

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gatctgctga aaaaaagcca aagatgtaag atggctgggt atatatgaga atgaatattt 180

cactatattc tgattcaatt accagtctca gtggcccagg atgagctttt ggtgtgtca 240

catggccaac atttggataa caaatgagga ataatggtac cgcctcacta gtgcctgaga 300
acagcatgtt ctggaaaatg tctctggagt tagagatgtg ttagcttttt cattacagat 360
ggagaaatac aatgtttaca caacagtcca ggggtggggt caaaagtgg aaggtgtcat 420
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<210> 118
<211> 430
<212> DNA
<213> Homo sapiens

<400> 118
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aatattttta ttgaaaagt catccgagtt tcatctaagt ttttcaaag tgatacaaat 180
ctccaaaaaa ttttcaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag 240
tccaaacctg tgtgttcaa gggtaactg tgtatgaatc caagcgaaag cttttcttaa 300
cacctcataa gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacaggta 360
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taaaaataaa 430

<210> 119
<211> 368
<212> DNA
<213> Homo sapiens

<400> 119
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ttactctatg ctagttcctg tttttaaaa aatagttctt atgaggtgtt aagaaaagct 180
ttcgttggga ttcatacaca gttgaccctt gaacaacaca ggtttggact gcgcagacca 240
cttacacctg gatfttttca atacatatat tggaaaattt ttgggggatt tgtatcactt 300
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<210> 120
<211> 435
<212> DNA
<213> Homo sapiens

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ctaccagtac tgaaatgggc aaaagatggc tgataacaaa ttacacttta cctgggatgg 120

ttactctatg ctagttcctg ttttttaaaa aatagttctt atgaggggtt aaaaaaagct 180

ttcgcttggg ttacatacaca gttgaccctt gaacaacaca ggtttgact gcgcagagcc 240

acttacacct ggatttttc aatacatata ttggaaaatt ttttgagat ttgtatcact 300

ttgaaaaaac ttgatgaaa ctcggtatgaa ctttcaatt aaaatattga aaaaaatgaa 360

gaaaaaggta tgcataaat gcagaaaatg tatacagata ctagtctact ttatcatttc 420

ctaccatacc aatag 435

<210> 121
<211> 880
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (788)..(788)
<223> a or g or c or t/u

<400> 121
taaaggaaca gttgtgctct gccacaaac aggcgtccct ttcctctgg ataacagtaa 60

gtgccagta acttcaacca gatgatcaaa gtggctcaca cacagtcact gccccccact 120

cagtatgtgg aagggttgtg tgtatgtggg cagtgcagg ggtcgtgcc tgtgtacact 180

gaactggggt gcagagaaag ccaacagtgc tgtcccagag aacctagaat ctgagtaaga 240

acaggcttta ttgtaaaac cactcgtgac tctttacaaa gcaggatata cagaagggaa 300

aaaaatacac agtgcaaaat ggatgttctg agtgccacaa ggatctgctg aaaaaagcca 360

aagatgtaag atggctgggt atatatgaga atgaatattt cactatattc tgattcaatt 420

accagtctca gtggcccagg atgagctttt ggtgtggtca catggccaac atttgataa 480

caaatgagga ataatgttac cgcctcacta gtgcctgaga acagcatgtt ctggaaaatg 540

tctctggagt tagagatgtg ttagcttttt cattacagat ggagaaatac aatgtttaca 600
 caacagtcca ggggtggggg tcaaaagttg gaaggtgtca ttagacgcag ccaataaag 660
 tgaagaccac ccaggtgact ggcagccctg acttgtgcgt gggcgaaacc ttacagattc 720
 ctggggcact ctgtgcctga acttacctgg atggtctttg tgaggcgggt gggcacttat 780
 cctccatnaa tggtcagtct aacaagaccg gcctgtaaaa atggcatcta ataggggcta 840
 tggaatggaa aacagttggt acccagaaat aactttaatt 880

<210> 122
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (34)..(34)
 <223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (192)..(192)
 <223> a or g or c or t/u

<400> 122
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 ctcttaggca cctgcttccg ccattctact taccatggct agagatgggg gtgagactgg 120
 ggaaggacaa aagcagggaa cagataaggg atggaaatca gaagggaata tagaaagaac 180
 tctggatatg cnagaaatgc cggtaacctga gcattttgta tcaatgggag taccctctgt 240
 aactgctcag taggttacia atgaagagtc caccagtatt agaacaatt taaacttgcc 300
 agtaccact gggatgtgtg ccttcaattt gaaaattgta tgttttatt tttaaattg 360
 gttacagca ttaattata gagtattga tgcatttat ggtcccgag gtgtttccaa 420
 cacaattttt gggatca 437

<210> 123
 <211> 1107
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> (893)..(893)

<223> a or g or c or t/u

<400> 123

cttttaatag ttaaaatag taaactattgg tatggttagga aatgataaag tagactagta 60
tctgtataca ttttctgcat ttatgacata cctttttctt cattttttc aatatttta 120
ttgaaaagtt catccgagtt tcatctaagt ttttcaaag tgatacaaat ctccaaaaa 180
ttttccaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag tccaaacctg 240
tgttgttcaa gggccaactg tgtatgaatc caagcgaaag cttttctta cacctcataa 300
gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacagga aagtgttaatt 360
tgttatcage catcttttgc ccatttcagt actggttagaa ggctcaatgg taaaaataaa 420
aacgggacag tcagaagatc tggaagtctt gaccctgctt tcacctggca tgtgtaatcc 480
agtcatgctc gtatcagtct ctgtaggagc acttgaaggt attacataaa tgctatctaa 540
ctctgggaaa cgccaacatg tgattgcctc cagaggaatc ttctttaaaa aaaaattcaa 600
aatgttattt ccttactagg atgtctttaa agaattataa cccttaccgt gcctccacat 660
tagatagatc cctgccacca gcacccatgt ggccaccagc agagacagca ggaggagagg 720
cagccagcct cccggcttgc tttgtctgg aaaaaaaca agcttatca ccttggaaa 780
aaaatccaca cttatctctt aatttaaaaa ctaagacttg gtatacttta tagagggtta 840
tttattttt attattttt agttttgaga cagagtctcg ctttgttgc tangctggag 900
tgcagtggcg caatctcggg tcaatgcagc ctccgttctc cgggggtcaa ggcagtctgg 960
ctcagcctcc tgtatagctg gggattaaag gcatgtgttc acgcggccca gcccttttg 1020
taaaagattt agatcccttt taaaaccatc agtcaggagg ctctttaaa aagtctggcc 1080
atctaacttt tttcccca aaagggg 1107

<210> 124

<211> 290

<212> DNA

<213> Homo sapiens

<400> 124

tttttttt tctttttct gagtaagaac aggccttatt tgtaaaacca ctctgtactc 60

tttacaagc aggatacaca gaaggga aaaatacacag tgcaaatgg atgttctgag 120
 tgccacaagg atctgctgaa aaaagccaaa gatgtaagat ggctgggtat atatgagaat 180
 gaatatcca ctatattctg attcaattac cagtctcagt ggcccaggat gagcttttgg 240
 tgtggtcaca tggccaacat ttggataaca aatgaggaat aatctcgtgc 290

<210> 125
 <211> 812
 <212> DNA
 <213> Homo sapiens

<400> 125
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 gctgcctgtt tgcaaaaaca taatataatt ctgttaaaca gttcttcacc taacagcata 120
 ttgctcttat aactggtaga gctgtttcaa aggaagtgg tttctgggcc aagttttgac 180
 ctaaaccatg tccatcttct attaccagca cttaacagca ctgtgaaaac tgatcatgac 240
 aaataagtaa aatttgctac attaaacata ttgcctcagc cattactaag cgtccacttg 300
 taaagctgga cacagttttt actttatgct tcattttgat tttttatccg taagacataa 360
 attagaaggc atgaggtggc ccttaagga taatctgcaa atatacacat ttaaatagtc 420
 atccatctga aatcgatcca cattccagag aagattcagt attgtgctgt gtgaaataag 480
 cattcccaga aaaaaaacat ttatgctaata aatacaacat aacctctgca ttaaagaaaa 540
 agatgctttt aggccaggcg ccgtgggtca cgcctgtaat ccctgcactt tgagaggctg 600
 aggtgggtgg atcatgaggt caggagatca agaccatcct ggctaacagg gtgaaacccc 660
 gtctctactg gggatataac aaagttagct ggggtgtgtg gtgggtgctt gtgtgccag 720
 ctactcagga ggctgaggca ggagaatggc gtgaaccggg aaggcagagg ttgtagtac 780
 gcgaggttca cgccactgca ttccagtctg gg 812

<210> 126
 <211> 679
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> (8)..(8)

<223> a or g or c or t/u

<400> 126

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tttcacagt aggaactagg gtttctgtcc agttttttg gttctttaag gaattaatgt 120
tattctgggt acaactgctt acatacatag cacatataga tgacattttt acaggccgtc 180
ttgttagact gacatacatg gaggatagtg ccaccgcct cacaagaaca tcaggtaagc 240
tcaggcacag agtgcccagg aatctgtaag gcttcgcca cgcacaagtc agggctgcca 300
gtcacctggg ttgtcttcac ttatttggc tgcgtctaata gacaccttcc aacttttgac 360
cccaccctg gactgttgtg taaacattgt atttctccat ctgtaatgaa aaagctaaca 420
catctctaac tcagagaca ttccagaa catgctgttc tcaggcacta gtgaggcggt 480
accattatc ctcatttgtt atccaatgt tggccatgtg accacacaa aagctcatcc 540
tgggccactg agactggtaa ttgaatcaga ataatgtgaa atattcattc tcatatatac 600
ccagccatct tacatctttg gctttttca gcagatcctt gtggcactca gaacatccat 660
tttgactgt gtattttt 679

<210> 127

<211> 449

<212> DNA

<213> Homo sapiens

<400> 127

aaatttttaa cttttaatag ttaaaatagt taactattgg tatggtagga aatgataaag 60
tagactagta tctgtatata tttctgcat ttatgacata ctttttctt cattttttc 120
aatattttaa ttgaaaagtt catccgagtt tcactaagt ttttcaaag tgatacaaat 180
ctccaaaaaa ttccaata tatgtattga aaaaatccag gtgtaagtgg ctctgcgcag 240
tccaaacctg tgtgttcaa gggtaactg tgtatgaatc caagcgaaag cttttcttaa 300
cacctcataa gaactatttt ttaaaaaaca ggaactagca tagagtaacc atcacaggta 360
aagtgaatt tgtatcagc catcttttgc ccatttcagt actggtagaa ggctcaatgg 420
taaaaataaa aacgggacag tcagaaaaa 449

<210> 128
<211> 396
<212> DNA
<213> Homo sapiens

<400> 128
tctgagtaag aacaggcttt atttgtaaaa cactcgtga ctcttaca agcaggatac 60
acagaaggga aaaaaatata cagtgcataa tggatgttct gaggccaca aggatctgct 120
gaaaaaagcc aaagatgtaa gatggctggg tatatatgag aatgaatatt tcactatatt 180
ctgattcaat taccagtctc agtggcccag gatgagcttt tgggtgggtc acatggccaa 240
catttgata acaaatgagg aataatgga ccgcctcact agtcctgag aacagcatgt 300
tctggaaaat gtctctggag ttagagatgt gtagctttt tcattacaga tggagaaata 360
caatgtttac acaacagtcc aggggtgggg tcaaag 396

<210> 129
<211> 232
<212> DNA
<213> Homo sapiens

<400> 129
ctgactgtcc cggttttatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgtaaga aaagctttcg ctggattca tacacagttg 180
accctgaac aacacaggtt tggactgcgc agagccacc tcgtgccgaa tt 232

<210> 130
<211> 185
<212> DNA
<213> Homo sapiens

<400> 130
ctgactgtcc cggttttatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgtaaga aaagctttcg ctggattca tacacagttg 180
accct 185

<210> 131
<211> 726
<212> DNA
<213> Homo sapiens

<400> 131
ggaaatgata aagtagacta gtatctgtat acattttctg catttatgac atacctttt 60
cttcattttt ttcaatattt taattgaaaa gttcatccga gtttcatcta agttttttca 120
aagtgataca aatctccaaa aaattttcca atatatgtat tgaaaaaatc caggtgtaag 180
tggctctgcg cagtccaaac ctgtgttgtt caagggtcaa ctgtgtatga atccaagcga 240
aagcttttct taacacctca taagaactat ttttaaaaa acaggaacta gcatagagta 300
accatcacag gtaaagtgtat atttgttate agccatcttt gccatttca gtactggtag 360
aaggctcaat ggtaaaaaata aaaacgggac agtcagaaga tctggaagtc ctgaccctgc 420
ttcacctgg catgtgtaat ccagtcatgc tcgtatcagt ctctgtagga gcactgaag 480
gtattacata aatgctatct aactctggga aacgccaaca tgtgattgcc tccagaggaa 540
tcttctttaa aaaaaaatc aaaatgttat ttcttacta ggatgtcttt aaagaattat 600
aaccttacc gtgcctccac attagataga tccctgcaac agacccatgt ggcaccagca 660
gagacagcag gaggagaggc agcagctccc gggtgttgt ctggaaaaac aaaggttate 720
actttg 726

<210> 132
<211> 185
<212> DNA
<213> Homo sapiens

<400> 132
ctgactgtcc cgtttttatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag ttctgtttt 120
ttaaaaaata gttcttatga ggtgttaaga aaagctttcg ctggattca tacacagttg 180
accct 185

<210> 133
<211> 291
<212> DNA

<213> Homo sapiens

<400> 133

gcacgagatt attcctcatt tgttatccaa atgttggcca tgtgaccaca ccaaaagctc 60

atcctgggcc actgagactg gtaattgaat cagaatatag tgaatatc attctcatat 120

ataccagcc atcttacatc ttiggtttt ttcagcagat ccttgtggca ctcagaacat 180

ccattttgca ctgtgtattt tttcccttc tgtgtatcct gctttgtaa gagtcacgag 240

tggttttaca aataaagcct gttcttactc agaaaaaaaa aaaaaaaaaa a 291

<210> 134

<211> 795

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1)..(2)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (770)..(770)

<223> a or g or c or t/u

<400> 134

nnttgaacag gcgtgacggt ccggattccc gggatgttgt gctctgccca caaacaggcg 60

tccctttccc tctggataac aacaaaagca agccgggagg ctggctgcct ctctctctgc 120

tgtctctgct ggtggccaca tgggtgctgg tggcagggat ctatctaatg tggaggcacg 180

aaaggatcaa gaagacttcc tttctacca ccacactact gccccccatt aaggttcttg 240

tggtttaccc atctgaaata tgtttccatc acacaatttg ttacttact gaatttctc 300

aaaaccattg cagaagttag gtcaccttg aaaagtggca gaaaagaaa atagcagaga 360

tgggtccagt gcagtggctt gccactcaaa agaaggcagc agacaaagtc gtcttcttc 420

tttccaatga cgtcaacagt gtgtgcgatg gtacctgtgg caagagcgag ggcagtccca 480

gtgagaactc tcaagacctc ttcccccttg cctttaacct ttctgcagt gatctaagaa 540

gccagattca tctgcacaaa tacgtggtgg tctacttag agagattgat acaaaagacg 600

attacaatgc tctcagtgc tgcccaagt accacctcat gaaggatgcc actgctttct 660

gtgcagaact tctccatgtc aagcagcagg tgtcagcagg aaaaagatca caagcctgcc 720
 acgatggctg ctgctccttg tagccacccc atgagaagca agagacctn aaggcttct 780
 atcccacat tacag 795

<210> 135
 <211> 387
 <212> DNA
 <213> Homo sapiens

<400> 135
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 aaagcaggat acacagaagg gaaaaaata cacagggcaa aatggatgtt ctgagtgcc 120
 caaggatctg ctgaaaaaag ccaaagatgt aagatggctg ggtatatatg agaatgaata 180
 ttccactata ttctgattca attaccagtc tcagtggccc aggatgagct ttgggtgtgg 240
 tcacatggcc aacatttga taacaaatga ggaataatgg taccgcctca ctagtgcctg 300
 agaacagcat gttctggaaa atgtctctgg agttagagat gtgtagctt ttccattaca 360
 gatggagaaa tacaatgttt acacaac 387

<210> 136
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 136
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 taatgcagct attaccactg gtggccagg ctctggtgaa gccctctgag cccaggagga 120
 agagaaagca ttgtccagag gtaggaacac agtctgggag cccagagctc tgggaggagt 180
 gggaaaatgc tgcttctgc tgcttgcttc taggcacctg ctccgccat ctacttacc 240
 atggctagag atgggggtga gactggggaa ggacaaaagc agggaacaga taagggatgg 300
 aaatcagaag ggaatataga aagaactctg gatgtggaga aatgccgta cctgagcatt 360
 ttgtatcaat gggagtaccc tctgtaactg ctcatgaggt tacaatatga gaggccacca 420
 gtattagaaa caatttaaac ttgccagtac caactgggat gtgtgccttc aatttgaata 480
 ttgtatgtt tatttttaa attgttaac agcattaatt tatagagtat tgatgtcatt 540

tatgtttctg aggtgtttca a

561

<210> 137
<211> 476
<212> DNA
<213> Homo sapiens

<400> 137
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acagaaggga aaaaaataca cagtgcataa tggatgttct gagtgccaca aggatctgct 120
gaaaaaagcc aaagatgtaa gatggctggg tatatatgag aatgaatatt tcactatatt 180
ctgattcaat taccagtctc agtggcccag gatgagcttt tgggtgggtc acatggccaa 240
catttgata acaaatgagg aataatgta ccgcctcact agtgcctgag aacagcatgt 300
tctggaaaat gtctctggag ttagagatgt gttagctttt tcattacaga tggagaaata 360
caatgtttac acaacagtcc aggggtgggg tcaaaagttg gaaggtgtca ttagacgcag 420
ccaataaag tgaagacaac ccaggtgact ggcagccctg acttgtgcgt gggcga 476

<210> 138
<211> 186
<212> DNA
<213> Homo sapiens

<400> 138
ctgactgtcc cgTTTTtatt ttaccattg agccttctac cagtactgaa atgggcaaaa 60
gatggctgat aacaaattac actttacctg tgatggttac tctatgctag tctctgttt 120
tttaaaaaat agttcttatg aggtgttaag aaaagcttgc gcttggattc atacacagtt 180
gaccct 186

<210> 139
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (255)..(255)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (260)..(260)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (307)..(307)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (350)..(350)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (406)..(406)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (431)..(431)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (446)..(446)
<223> a or g or c or t/u

<400> 139
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tttcacagta ggaactaggg ttctgtcca gttttttgg ttcttaagg aattaatgtt 120
attctgggta caactgctta catacatagc acatatagat gacatttta caggccgtct 180
tgttagactg acatacatgg aggatagtc caccgcctc acaagaacat caggtaaagt 240
caggcacaga gtcnagggg atctgtaagg gcttcgccca cgcacaagtc agggctgccca 300
gtcaccnggg ttgtcttcac ttatttggg ctgcgtctaa tgacacctn ccaactttt 360
gacccacccc tggggcttgt tgtgtaaacc attgtattt ctccntctg taatggaaaa 420
aggttaacac nttttaact tccgngaca tttttc 456

<210> 140
<211> 1816
<212> DNA

<213> Homo sapiens

<400> 140

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cgagagccga cgttcaatg tggctctgaa actgggcat ctccagagtg gatgctacaa 120
catgatctaa tccccggaga ctgaggagac ctccagtag aacctgttac aactagtgt 180
gcaacagggg actattcaat ttgatgaat gtaagctggg tactccgggc agatgccagc 240
atccgcttgt tgaaggccac caagatttgt gtgacgggca aaagcaactt ccagtcctac 300
agctgtgtga ggtgcaatta cacagaggcc ttccagactc agaccagacc ctctggtggt 360
aatggacat ttctcatat cggttcctt gtagagctga acacagtcta ttctattggg 420
gcccataata ttctaatagc aaatatgaat gaagatggcc ctccatgtc tgtgaatttc 480
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agcctgtggg atccgaacat cactgcttgt aagaagaatg aggagacagt agaagtgaac 600
ttcacaacca ctcccctggg aaacagatac atggctctta tccaacacag cactatcatc 660
gggttttctc aggtgtttga gccacaccag aagaacaaaa cgcgagcttc agtggtgatt 720
ccagtgactg gggatagtga aggtgctacg gtgcagctga ctccatattt tctacttgt 780
ggcagcgact gcacccgaca taaaggaaca gttgtgctct gccacaaaac aggcgtccct 840
ttccctctgg ataacaaca aagcaagccg ggaggctggc tgcctctcct cctgctgtct 900
ctgctggtgg ccacatgggt gctggtggca gggatctatc taatgtggag gcacgaaagg 960
atcaagaaga ctctctttc taccaccaca ctactgccc ccattaaggt tctgtggtt 1020
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cattgcagaa gtgaggtcat ccttgaagag tggcagaaaa agaaatagc agagatgggt 1140
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aatgacgtca acagtgtgtg cgatgttacc tgtggcaaga gcgagggcag tccagtgag 1260
aactctcaag actcttcccc ttgcctttaa cctttctgc agtgatctaa gaagccagat 1320
tcactgcac aaatacgtgg tggctactt tagagagatt gatacaaaag acgattacaa 1380
tgctctcagt gtctgcccc agtaccacct catgaaggat gccactgctt tctgtgcaga 1440
acttctccat gtcaagtagc aggtgtcagc aggaaaaaga tcacaagcct gccacgatgg 1500

ctgctgctcc ttgtagccca cccatgagaa gcaagagacc ttaaaggctt cctatccac 1560
caattacagg gaaaaaacgt gtgatgatcc tgaagcttac tatgcagcct acaaacagcc 1620
ttagtaatta aaacatttta taccaataaa atttcaaatt attgctaact aatgtagcat 1680
taactaacga ttgaaacta catttacaac ttcaaagctg ttttatacat agaaatcaat 1740
tacagtttta attgaaaact ataaccattt tgataatgca acaataaagc atcttcagcc 1800
aaaaaaaaa aaaaaa 1816

<210> 141
<211> 1828
<212> DNA
<213> Homo sapiens

<400> 141
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agccgaccgt tcaatgtggc tctgaaactg ggccatctcc agagtggatg ctacaacatg 120
atctaattccc cggagacttg agggacctcc gagtagaacc tgttacaact agtgttgcaa 180
caggggacta ttcaattttg atgaatgtaa gctgggtact ccgggcagat gccagcatcc 240
gcttggtgaa ggccaccaag atttgtgtga cgggcaaaag caacttcag tcctacagct 300
gtgtgaggtg caattacaca gaggccttcc agactcagac cagaccctct ggtggtaaat 360
ggacatttcc ctatcggc ttccctgtag agctgaacac agtctatttc attggggccc 420
ataatatccc taatgcaat atgaatgaag atggcccttc catgtctgtg aattcacct 480
caccaggctg cctagaccac ataataaat ataaaaaaaa gtgtgtcaag gccggaagcc 540
tgtgggatcc gaacatcact gcttgaaga agaataagga gacagtagaa gtgaacttca 600
caaccactcc cctgggaaac agatacatgg ctcttatcca acacagcact atcatcgggt 660
ttctcaggt gtttgagcca caccagaaga aacaaacgcg agcttcagt gtgattccag 720
tgactgggga tagtgaaggt gctacggtgc agctgactcc atattttcct acttgtggca 780
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 <212> DNA
 <213> Homo sapiens

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 caggggaaaa acgtgtgatg atc 1583

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 <212> DNA
 <213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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 atatttact atattctgat tcaattacca gtctcagtgg cccaggatga gcttttgggtg 240
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acagatggag aaatacaatg ttacacaac agtccagggg tggggtcaaa agttggaagg 420
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 tgcgtgggcg aagccttaca gattcctggg cactctgtgc ctgagcttac ctgatgttct 540
 tgtgaggcgg gtggcactat cctccatgta tgtcagtcta acaagacggc ctgtaaaaat 600
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 cgaat 665

<210> 146
 <211> 664
 <212> DNA
 <213> Homo sapiens

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 <223> a or g or c or t/u

<400> 146
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 agtttccaat cgtagttaa tgctacatta gtagcaata ttgaaaatt ttattggtat 180
 aaaatgtttt aattactaag gctgtttgta ggctgcatag taagcttcag gatcatcaca 240
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 ggggcagaca ctgagagcat tgaatcgtc tttgtatca atctctctaa agtagaccac 480
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 ggggaagagg tcttgagagt tctcactggg actgccctcg ctcttgccac aggtaccatc 600
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 agtg 664

<210> 147
 <211> 739

<212> DNA
<213> Homo sapiens

<400> 147

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tatcaatggg agtacctct 739

<210> 148
<211> 657
<212> DNA
<213> Homo sapiens

<400> 148

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gtttccaatc gttagtaat gctacattag ttagcaatat tgaaaattt tattggtata 180
aatgtttta attactaagg ctgttttag gctgcatagt aagcttcagg atcatcacac 240
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<210> 149

<211> 102

<212> DNA

<213> Homo sapiens

<400> 149

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ttgatttcta tgtataaaac agctttgaag ttgtaaagt ag 102

<210> 150

<211> 187

<212> DNA

<213> Homo sapiens

<400> 150

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taacgattgg aaactacatt tacaacttca aagctgtttt atacatagaa atcaattaca 120

gctttaattg aaaactgtaa ccattttgat aatgcaacaa taaagcatct tcagccaaaa 180

aaaaaaaa 187

<210> 151

<211> 361

<212> DNA

<213> Homo sapiens

<400> 151

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caagagcgag ggcagtccca gtgagaactc tcaagacctc ttccccctt gcctttaacc 180

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<211> 783
<212> DNA
<213> Homo sapiens

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<221> misc_feature
<222> (707)..(707)
<223> a or g or c or t/u

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tat 783

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<212> DNA
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<211> 518
<212> DNA
<213> Homo sapiens

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<222> (503)..(503)
<223> a or g or c or t/u

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taagtgtggt taatagaaga tggacatggt ttaggtcaaa acttggacca gaaaccaact 480
tcctttgaaa cagctctacc agntataaga gcaatatg 518

<210> 155
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<212> DNA
<213> Homo sapiens

<400> 155
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tcactctgc aatggtttg aagaaattca gtgaagtaac aaattgtgtg atggaacat 180
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 gaagtcttct tgatccttc tgtgagagga gaaaagcatt tgttatctgt gaacagcaaa 300
 cagcaggctt tcactctgta aaccatccct gacaaatgat ccttgctag agaatgtcag 360
 ctgagcacca agggccttgt tagtgacagc aaggaaaaac atcctgatgt tccttttgaa 420
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 ctactctgt 490

<210> 156
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 <212> DNA
 <213> Homo sapiens

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 tgccacaagg atctgctgaa aaaagccaaa gatgtaagat ggctgggtat atatgagaat 180
 gaatatcca ctatattctg attcaattac cagtctcagt ggcccaggat gagcttttgg 240
 tgtggtcaca tggccaacat ttgataaca aatgaggaat aatggtaccg cctcactagt 300
 gcctgagaac agcatgttct ggaaaatgtc tctggagtta gagatgtgtt agcttttca 360
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 g 421

<210> 157
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 <212> DNA
 <213> Homo sapiens

<400> 157
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 gttccaatc gttagtaat gctacattag ttagcaatat ttgaaaattt tattggtata 180
 aaatgttta attactaagg ctgtttgtag gctgcatagt aagcttcagg atcatcacac 240

gtttttccc tgtaattggt gggataggaa gcctttaagg tctcttgctt ctcattgggtg 300
ggctacaagg agcagcagcc atcgtggcag gcttgtgatc ttttcctgc tgacacctgc 360
tgcttgacat ggagaagttc tgcacagaaa gcagtggcat ccttcattgag gtggtacgtg 420
gggcagacac tgagagcatt gtaatcgtct tttgtatcaa tctctctaaa gtagaccacc 480
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gggaaga 547

<210> 158
<211> 644
<212> DNA
<213> Homo sapiens

<400> 158
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tacactttac ctgtgatggt tactctatgc tagttcctgt ttttaaaaa atagttctta 180
tgagggtgta agaaaagctt tcgcttgat tcatacacag ttgacccttg aacaacacag 240
gtttggactg cgcagagcca cttacacctg gattttttca atacatatat tggaaaattt 300
tttggagatt tgtatcactt tgaaaaaact tagatgaaac tcggatgaac tttcaatta 360
aaatattgaa aaaaatgaag aaaaaggtat gtcataaatg cagaaaatgt atacagatac 420
tagtctactt tatcatttcc taccatacca atagttaact attttaacta ttaaaagtta 480
aaaatttacc aaaacttaaa cacacacata ccaactgtac atggcaccat tcacagttga 540
gagaaacgtg agcataaaga tgttgtatta aatcataact gcatacaatt aattgcagtg 600
cgtactgtcc tgctgtgaat atttctagc cctcgtgccg aatc 644

<210> 159
<211> 470
<212> DNA
<213> Homo sapiens

<400> 159
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ccaatgacgt caacagtgtg tgcgatggta cctgtggcaa gagcgagggc agtcccagtg 120

agaactctca agacctcttc ccccttgcct ttaacctttt ctgcagtgat ctaagaagcc 180
agattcatct gcacaaatac gtgggtgtct actttagaga gattgataca aaagacgatt 240
acaatgctct cagtgtctgc cccaagtacc acctcatgaa ggatgccact gctttctgtg 300
cataacttct ccatgtcaag cagcaggtgt cagcaggaaa aagatcacia gcctgccacg 360
atggctgctg ctctttagtag cccacccatg agaagcaaga gacctaaag gcttcctatc 420
ccaccaatta cagggaaaaa aacgtgtgat gatcctgaag ccacgggtcaa 470

<210> 160
<211> 499
<212> DNA
<213> Homo sapiens

<400> 160
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cgtggcaggc ttgtgatctt tttcctgctg acacctgctg ctgacatgg agaagttatg 180
cacagaaagc agtggcatcc ttcattgagt ggtacttggg gcagacactg agagcattgt 240
aatcgtcttt tgtatcaatc tctctaaagt agaccaccac gtatttgtgc agatgaatct 300
ggcttcttag atcactgcag aaaaggtaa aggcaagggg gaagaggtct tgagagttct 360
cactgggact gccctcgctc ttgccacagg taccatcgca cacactgttg acgtcattgg 420
aaagaaggaa gacgactttg tctgtgcct tcttttgagt ggcaagccac ggtcaacca 480
caagccacgg tcaaccac 499

<210> 161
<211> 615
<212> DNA
<213> Homo sapiens

<400> 161
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ttgactttag ggctttgtta cagatgtgtg accaagggga aaatgtgcat gacaacacta 180
gaggtagggg cgaagccaga aagaaggga gttttggctg aagtaggagt cttgcgactg 240

catccgacat aaaggaacag ttgtgctctg cccacaaaca ggcgtccctt tccctctgga 300
taacaacaaa agcaagccgg gaggctggct gcctctcctc ctgctgtctc tgetgggtggc 360
cacatgggtg ctgggtggcag ggatctatct aatgtggagg cacgaaagga tcaagaagac 420
ttccttttct accaccacac tactgcccc cattaagggt cttgtgggtt acccatctga 480
aatatgttc catcacacaa ttgttactt cactgaattt ctcaaaacc attgcagaag 540
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tcgtgcgatg gtctt 615

<210> 162
<211> 636
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<222> (463)..(463)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (467)..(467)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (502)..(502)
<223> a or g or c or t/u

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<222> (507)..(507)
<223> a or g or c or t/u

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<221> misc_feature
<222> (595)..(595)
<223> a or g or c or t/u

<220>
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<223> a or g or c or t/u

<400> 162
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agtaacgtgt acaaagtta gggtcagacc ccgggagtct tgggcatgtg ggtctcgggt 180
cactggtttt gactttaggg cntgtttaca gatgtgtgac caaggggaaa atgtgcatga 240
caacactaga gctgactcca tatttccta ctgtggcag cgactgcacg cgacataaag 300
gaacagtgt gctctgccca canacaggcg tccctttccc tctggataac aacataagca 360
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tactggcccc aataagggtc tngtggntac cccatctgaa tatgttcata cacaatttgt 540
actcactgaa ttctcaaaac attgagagtg aggcacctg aaagtgcgaa aaganatgcn 600
aatggtcagt gcattgtgca ctgacagcat ggactt 636

<210> 163
<211> 676
<212> DNA
<213> Homo sapiens

<400> 163
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gtggatgcta caacatgac taatccccgg agacttgagg gacctccgag tagaacctgt 180
tacaactagt gttgcaacag gggactattc aattttgatg aatgtaagct ggttactccg 240
ggcagatgcc agcatccgct tgtgaaggc caccaagatt tgtgtgacgg gcaaaagcaa 300

cttcagtc tacagctgtg tgagggtgcaa ttacacagag gccttccaga ctacagaccag 360
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ctatttcatt ggggcccata atattcctaa tgcaaatatg aatgaagatg gcccttccat 480
gtctgtgaat ttacctcac caggctgcct agaccacata atgaaatata aaaaaaagtg 540
tgtcaaggcc ggaagcctgt gggatccgaa catcactgct tgtaagaaga atgaggagac 600
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cagcactatc attcgg 676

<210> 164
<211> 722
<212> DNA
<213> Homo sapiens

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tgtccagttt ttttggttct ttaaggaatt aatgttatc tgggtacaac tgcttacata 180
catagcacat atagatgaca ttttacagg ccgtctgtt agactgacat acatggagga 240
tagtgccacc cgctcacia gaacatcagg taagctcagg cacagagtgc ccaggaatct 300
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ttggctgcgt ctaatgacac ctccaactt ttgacccac ccctggactg ttgtgtaaac 420
attgtatttc tccatctgta atgaaaaage taacacatct ctaactccag agacatttc 480
cagaacatgc tgtctcagg cactagttag gcggtacat tattctcat ttgtatcca 540
aatgttgcc atgtgaccac accaaaagct catcctgggc cactgagact ggtaattgaa 600
tcagaatata gtgaaatatt cattctcata tataaccagc catcttcat ctttggcttt 660
tttcagcaga tccttgggc actcagaaca tccatttgc actgtgtatt ttttccctt 720
ct 722

<210> 165
<211> 335
<212> DNA

<213> Homo sapiens

<400> 165

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gccagattca tctgcacaaa tacgtgggtgg tctactttag agagattgat acaaaagacg 120
attacaatgc tctcagtgtc tgccccaagt accacctcat ggaggatgcc actgctttct 180
gtgcagaact tctccatgtc aagtagcagg tgtagcagg aaaaagatca caagcctgcc 240
acgatggctg ctgctccttg tagccacccc atgagaagca agagacctta aaggcttcct 300
atcccaccaa ttacagggaa aaaacgtgtg atgat 335

<210> 166

<211> 680

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<223> a or g or c or t/u

<400> 166

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tcaacagtgt gtgcgatggt acctgtggca agagcgaggg cagtcccagt gagaactctc 240
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tcagtgtctg cccaagtac cacctcatga aggatgccac tgctttctgt gcagaacttc 420
tccatgtcaa gtagcaggtg tcagcaggaa aaagatcaca agcctgccac gatggctgct 480
gtccttcta gccacccat gagaagcaag agaccttaaa ggtctctat cccaccaatt 540
acagggaataa aaacgtgtga tgatccctga agcttactat gcagcctaca nacagcctta 600
gtaataaaac atttatcca ataaaattc aaattttgct taactatgtg cataaactac 660
gattgaaaac tctttacact 680

<210> 167
<211> 491
<212> DNA
<213> Homo sapiens

<400> 167
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gccatcgtgg caggcttgtg atctttttcc tgctgacacc tgctgcttga catggagaag 180
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aatctggctt cttagatcac tgcagaaaag gttaaaggca agggggaaga ggtcttgaga 360
gttctactg ggactgccct cgctcttgcc acaggtacca tcgcacacac tgttgacgtc 420
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tggaccatc t 491

<210> 168
<211> 533
<212> DNA
<213> Homo sapiens

<400> 168
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acggtaaggg ttataattct ttaaagtcac cctagtaagg aaataacatt tggaattttt 180
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tacctgtgat gggtactcta tgctagtcc tgtttttaa aaaatagtic ttatgagtg 480
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<211> 218

<212> DNA
<213> Homo sapiens

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<222> (199)..(199)
<223> a or g or c or t/u

<400> 169
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acaactcaa agctgtttta tacatagaaa tcaattacag cttaattga aaactataac 180
cattttgata atgcaacant aaagcatctt cagccaaa 218

<210> 170
<211> 703
<212> DNA
<213> Homo sapiens

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<222> (554)..(554)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (703)..(703)
<223> a or g or c or t/u

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cagtctattt cattggggcc cataatattc ctaatgcaaa tatgaatgaa gatggccctt 180
ccatgtctgt gaatttcacc tcaccaggct gcctagacca cataatgaaa tataaaaaaa 240
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gagcttcagt ggtgattcca gtgactgggg atagtgaagg tgctacgggtg cagctgactc 480
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cacaaacagg cgtncctttt cctctggata acaacaaaag caagccggga ggcttggtg 600
ctctccttct gctggccttt gctgtggcca cattggtgct ggtggcaggg atctatctaa 660
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<212> DNA
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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tggaggcagc aaaggatcaa gaagacttc tttctacca ccactact gccccccatt 240
aaggttcttg tggtttacc atctgaaata tgtttccatc acacaattg ttacttact 300
gaatttctc aaaaccattg cagaagtgag gtcactcttg aaaagtggca gaaaaagaaa 360
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acaaaagacg attacaatgc tctcagtgtc tgccccaagt accacctcat gaaggatgcc 660
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caagcctgcc acgatggctg ctgctccttg tagccacccc atgagaagca agagacctta 780
 aggcttctat cccaccanta caggnaaaaa cgtgtgatga tcctgaagct tactatgcag 840
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<210> 172
 <211> 959
 <212> DNA
 <213> Homo sapiens

<400> 172
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 gtgtgtcaag gccggaagcc tgtgggatcc gaacatcact gcttgaaga agaataarga 660
 gacagtagaa gtgaactca caaccactcc cctgggaaac agatamatkg ctcttateca 720
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 agcttcagtg gtgattccag tgactgggga tagtgaaggt gctacggtgc agctgactcc 840
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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<222> (48)..(48)
<223> a or g or c or t/u

<400> 173
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taatattcta tgtttaatta atgaatacta actctaagaa cccctcactg attcactcaa 180

tagcatctta agtgaaaaac ctctattac atgcaaaaaa tcattgttt taagataaca 240

aaagtaggga ataacaagc tgaaccact ttactggac caaatgatct attatatgtg 300

taaccacttg tatgatttgg tatttgcata agacctccc tctacaaact agattcatat 360

cttgattctt gtacaggtgc ctttaacat gaacaacaaa ataccacaa acttgtctac 420

tttgcctaa agttacctat tagaggcac tgtsagagtk ctcagtttct tagttactat 480

ttaasttts atgtcaaaa tgaaaataat tctkaagtkg aaagsgctct tgaagtaacc 540

ttttataaa tgagttatta taatggttta cttaaataaa avagaggggk tttgcggtg 600

gctcatgcct ccaatcccag cactttggca aggccaaggc aaaavgatcg ctcaagacca 660

ggctacgtca caaagcgaga cctccatctc tacaaaagat ttaaaaaatt agctgagtg 720

gatggtgtga gcctgtggc ccagctacta gggaggctga gatgggagga tcacttgagc 780

cctggaggtc aagggtgcag taaacggtga ttgtgccact gcactccatc ctgggtgaga 840
gcagaccctg tctaaaacaa acaaacgaaa aaacccccac agaatgacag aacataaaag 900
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kggayamagg mcccacacaaa ccagtaaytt tatwttttga aaaagggtty acctgtasma 1140
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<210> 174
<211> 899
<212> DNA
<213> Homo sapiens

<220>
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<223> a or g or c or t/u

<220>
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<222> (485)..(485)
<223> a or g or c or t/u

<400> 174
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aggcagccag cctcccggtt tgcctttgtt gttatccaga gggaaaggga cgcctgtttg 180
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tggagtcagc tgcaccgtag caccitcact atccccagtc actggaatca cactgaagc 300
tcgcgtttgt ttcttctggt gtggctcaaa cacctgagaa aacccgatga tagtgctgtg 360
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ctntntttta tatttcatta tgtggtctag gcagcctggt gaggtgaaat tcacagacat 540
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 gttgcttttg ccccgcacac aaatcttggt ggccttcaac agcggatgct gccatttgcc 780
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<210> 175
 <211> 877
 <212> DNA
 <213> Homo sapiens

<400> 175
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 gaggcagcca gcctcccgcc ttgcttttgt ttttatccag agggaaaggg acgcctgttt 180
 gtgggcagag cacaactgtt cctttatgtc ggatgcagtc gctgccacaa gtaggaaaat 240
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 ctgcgctttg tttctcttgg tgtggctcaa acacctgaga aaaccgatg atagtgtgt 360
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 tctcctcatt cttcttaca gcaagtgtgt tcggatcca caggcttccg gccttgacac 480
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 tggctctgagt ctggaaggcc tctgtgta at tgcacctcac acagctgtag gactgggagt 720
 tgcctttgcc cgtacacaaa tctgttggc cttcaacaag cggatgctgg catctggcgg 780
 gggtaccag cttacattca tcaaaattga atagtccct tgttgcaaca ctagtttga 840
 aacaggttct actcggggg tccctcagt ctcccg 877

<210> 176
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 176
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 accacataat gaaatataaa aaaaagtgtg tcaaggccgg aagcctgtgg gatccgaaca 120
 tcaactgcttg taagaagaat gaggagacag tagaagtga cttcacaacc actcccctgg 180
 gaaacagata catggctctt atccaacaca gcactatcat cgggttttct cagggtgttg 240
 agccacacca gaagaacaa acgcgagctt cagtggatgat tccagtgact ggggatagtg 300
 aaggtgctac ggtgcaactg actccatatt ttctacttg tggcagcgac tgcacccgac 360
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<210> 177
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 177
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 gaccacataa tgaatataa aaaaaagtgt gtcaaggccg gaagcctgtg ggatccgaac 120
 atcaactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac cactcccctg 180
 ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc tcaggtgttt 240
 gagccacacc agaagaaca aacgcgagct tcagtggatga ttccagtgcac tgggatagtg 300
 gaaggtgcta cggcgagct gactccatat ttctactt gtggcagcga ctgcatccga 360
 cataaaggaa cagttgtgct ctgccacaaa acaggcgctc ttccctctg gataacaac 420

<210> 178
 <211> 676
 <212> DNA
 <213> Homo sapiens

<400> 178
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 gaccacataa tgaatataa aaaaaagtgt gtcaaggccg gaagcctgtg ggatccgaac 120
 atcaactgctt gtaagaagaa tgaggagaca gtagaagtga acttcacaac cactcccctg 180
 ggaaacagat acatggctct tatccaacac agcactatca tcgggttttc tcaggtgttt 240
 gagccacacc agaagaaca aacgcgagct tcagtggatga ttccagtgcac tgggatagtg 300

gaaggtgcta cggcgcagct gactccatat ttctctactt gtggcagcga ctgcatccga 360
cataaaggaa cagttgtgct ctgccacaaa acaggcgtcc ctttcctctt ggataacaac 420
aaaagcaagc cgggaggctg gctgcctctc ctctgctgt ctctgctggt ggccacatgg 480
gtgctggtgg cagggatcta tctaattgtg aggcacgaaa ggatcaagaa gacttccttt 540
ttaccacca cactactgtc tccattaaa gatcttgtgg ttatccatc tgaatatattg 600
ttccattaca catattgga cctaactgaa attctttaa accattgcaa attgaggtca 660
ctcttgaaag ggcgtg 676

<210> 179
<211> 517
<212> DNA
<213> Homo sapiens

<400> 179
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gaaaaaaatg cagcatcaac ggcagcagca agcggaccac gcgaacgagg caaactatgc 180
aagaggcacc agacttcctc ttcttggtga aggaccaact tctcagctga atagctccaa 240
gcaaactgtc ctgtcttggc aagctgcaat cgatgctgct agacaggcca aggctgccca 300
aactatgagc acctctgcac cccacctgt aggatctctc tccaaagaa aacgtcagca 360
atacgccaag agcaaaaaac agggtaactc gtccaacagc cgacctgccc gcgccctttt 420
ctgtttatca ctcaataacc ccatccgaag agcctgcatt agtatagtgg aatggaaaca 480
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<210> 180
<211> 860
<212> DNA
<213> Homo sapiens

<400> 180
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gcattccagc tcccctgggg ttgggaagt tatgtccaca cagggtagcg tgcaagagat 120
tagttgccat gaacatgcct ctcaacagt acgggacagt catgtttaa gcaaccctgt 180

ttgctttggt tcgaacggct cttaatgata agaccgaagg gaacctggag caagctaag 240
 aagaacttcg ggctgtgata aagaaaattt ggaagaaaac cagcatgaaa ttacttgacc 300
 aagttgtccc tccagctggt gatgatgagg taaccgtggg gaagttctat gccactttcc 360
 tgatacagga ctactttagg aaattcaaga aacggaaaga acaaggactg gtgggaaagt 420
 accctgcgaa gaacaccaca attgccctac aggcggggatt aaggacactg catgacattg 480
 ggccagaaat ccggcgtgct atatcgtgtg atttgcaaga tgacgagcct gaggaacaa 540
 aacgagaaga agaagatgat gtgttcaaaa gaaatggtgc cctgcttga aaccatgtca 600
 atcatgttaa tagtgatagg agagattccc ttcagcagac caatagcacc accgtcccct 660
 gcattgtcca aaggccttca attccacctg caagtatac tgagaaaccg ctgtttcctc 720
 cagcaggaaa ttcggggtgt cataaccatc ataaccatta attccatagg aaagcaaggt 780
 tcccacttca acaatgccag tctcgaatag tgccaatatg tccaaagctt gccatggtaa 840
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<210> 181
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 181
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 caggaaacag caggccccgc cctctcacag aggatgggtg aggaggccag acctgccctg 180
 cccattgtc cagatgggca ctgctgtgga gtctgttct cccatgtacc agggcaccag 240
 gcccaccaa ctgaaggcat ggcggcgggg tgcaggggaa agttaaaggt gatgacgac 300
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 atccattttt aaacccttcc ccacaaatac actgcgtcct ggttcctgtt tagctgttct 420
 gaaatacggg gtgtaagtaa gtcagaaccc agctaccagt gattattgag agggcaatgg 480
 gacctcataa ataag 495

<210> 182
<211> 557
<212> DNA
<213> Homo sapiens

<400> 182
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gttcaaatac aatacagtaa ttacaaaata tagaccatct cttacaaat acaaattata 120
gtatattaca agtcatgtac agtaaatcta taattttaa caaactagt tatctaagtt 180
tacctggttg cgagtgcatt attattccag ttacagttg cccttagcgt gacagtcaga 240
aaccgaccat cggagtgata ttctcttatg taaactggcg tcacatcaca gaaaacctta 300
tttatgaggt ccattgccc tcgcaataat cactggtagc tgggttctga ctacttaca 360
caccgtattt cagaacagct aaacaggaac caggacgcag tgtatttggt ggaaagggtt 420
taaaaatgga tatgttgggc ccagtgactg atatgctaga ccgatggctg aggtaacgac 480
acaggtgtga tgatgctcat cacctttaac ttccctgc accccgccgc catgccttcc 540
agttgggtgg gcctggt 557

<210> 183
<211> 416
<212> DNA
<213> Homo sapiens

<400> 183
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cctcttggtt ctgtcacct gcgagatgct ggtaaaaatg tacagcttgg gcctccaagc 120
atactcttgt tctcttaca accggttga ttgcttcgtg gtgtgtggtg gaatcactga 180
gacgatcttg gtggaactgg aaatcatgtc tccctggggg atctctgtgt ttcggtgtgt 240
gcgcctctta agaattctca aagtgaccag gcactggact tcctgagca acttagtggc 300
atccttatta aactccatga agtccatgc ttcgtgttg ctctgcttt ttctcttcat 360
tatcatcttt tccttgcttg ggatgcagct gtttggcggc aagttaatt ttgatg 416

<210> 184
<211> 401
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (365)..(365)

<223> a or g or c or t/u

<400> 184

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gcggacagtt ggtggaggca gtctgatat ccgaagcttg ggacgctatg caagggaccc 120

aaaatttggt tcagcaacaa aacacgaaat cgctgatgcc tgtgacctca ccatcgacga 180

gatggagagt gcagccagca cctgcttaa tgggaacgtg cgtccccgag ccaacgggga 240

tgtgggcccc ctctcacacc ggcagactat gagctacagg actttggtcc tgggcttaca 300

gcgacgaaga gccagaccct ggggagggat tgagggagga cctgggcgga tgaattgatt 360

ttgcntcacc acctttgtta ggccccagg cgaggggcaa g 401

<210> 185

<211> 186

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (11)..(11)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (172)..(172)

<223> a or g or c or t/u

<400> 185

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tagaaaaatt tctgtagtgt caagttcttt caaactaaa atttaaccc cagaggattt 120

tcgctgaata aatgagaatt ggctctattt ctctacttc tggatagccc gngtaaaaat 180

actaat 186

<210> 186

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (45)..(45)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (296)..(296)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (303)..(303)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (345)..(345)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (366)..(366)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (386)..(386)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (391)..(391)

<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (420)..(420)

<223> a or g or c or t/u

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<221> misc_feature

<222> (428)..(428)

<223> a or g or c or t/u

<400> 186

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agaaaaattt ctgtagtgtc aagttctttc aaacttaaaa tttaacccc agaggatttt 120

cgctgaataa atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaata 180
 ctaataattt ctagatttta gtggggaact acaattatta ggacccatgg atattgctgc 240
 agttcaaata caatacagta attacaaaat atagaccatc tctttacaaa tacaanttat 300
 agnatattac aagtcagtga cagtaaactc ataattttgg acaanctagt gtatctaagt 360
 ttaccngggg tgcgagtgcc ttatnttcc ngtttacagt tggccttagc gtgacagtcn 420
 ggaaccgncc ttc 433

<210> 187
 <211> 331
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (61)..(61)
 <223> a or g or c or t/u

<400> 187
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 ntlttggtgga ggcagtcctg atatccgaag ctggggacgc tatgcaaggg acccaaaatt 120
 tgtgtcagca acaaaacacg aaatcgctga tgcctgtgac ctcaccatcg acgagatgga 180
 gagtgcagcc agcaccctgc ttaatgggaa cgtgcgtccc cgagccaacg gggatgtggg 240
 cccctctca caccggcaga ctatgagcta caggactttg gtcctgggct acagcgacga 300
 agagccagac cctgggaggg atgaggagga c 331

<210> 188
 <211> 643
 <212> DNA
 <213> Homo sapiens

<400> 188
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 gctatccaga agtagaagaa atagagcaaa ttctcattta ttcagcgaaa atcctctggg 120
 gttaaaattt taagttgaaa gaacttgaca ctacagaaat tttctaaaa tatttgagtc 180
 actataaacc tatcatcttt ccacaagata taccagatga ctattgcagt cttctcttgg 240
 gcaagagttc catgatttga tactgtacct tggatccacc atgggtgcaa ctgtcttgg 300

ttgttgtga ctggaaccac cctctggtaa gtaagtgaat tacagagcag gtctagctgg 360
 ctgctctgcc ccttggttat ccatagttac ggttttctct gtggcccacc caggtgtttt 420
 tgcacgcctg gtgcagaaat gcacaggtgg atgagatata gctgctcttg tcctctgggg 480
 actggtggtg ctgcttaaga aataaggggt gctggggaca gaggagcaac gtggtgatct 540
 ataggattgg agtgcggggg tctgtacaaa tcgtattgtt gccttttaca aaactgtga 600
 ctgtatgttc tcttgaggg cttttgtatg caattgaatg agg 643

<210> 189
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 189
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 agtgtcaagt tctttcaaac ttaaaatttt aacccagag gattttcgct gaataaatga 120
 gaattggctc tattttctct acttctggat agcccgagta aaaatactaa taatttctag 180
 attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
 acagtaatta caaaatatag accatctctt tacaaataca aattatagta tattacaagt 300
 catgtacagt aaatctataa ttttaacaa acctgtgtat ctaagtttac ctggttg 357

<210> 190
 <211> 420
 <212> DNA
 <213> Homo sapiens

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 tggaaattgt taaatctca agcaacaatg ctgattaatt tctggtaaat aatcgttcta 120
 tagttctct tcatgaagcc tggtagggt ccaggaaaca gcttgatttg ggaagcctca 180
 gcagaaaaga aagcatctca gaggacacat aaaatgtctg gcaaccctc ttggcgcccc 240
 tcatccagca aagcttgtgt ggtcttgcca actgtctca ggactctgct ttcaagatga 300
 aagaggtgta gcttaccgcg tcaatacacc aagtacaaga ttagtacga aaaatgacct 360
 aaagatgacg agactgacaa gatacaccca gggcaattcc aatcccatag catcattcat 420

<210> 191
<211> 465
<212> DNA
<213> Homo sapiens

<400> 191
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ctctgatcca ggcaaaaaca ctcaagggtt tgtaaatgac tcttctctga cataaatcct 120

tttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataattt ttatacttgg 180

gagtgtctct tgcacagagc tgtcatttgc cagtgagagc ctccgacagg gcagg tactg 240

tgccagggca gctctgaaat tatggatatt cttatcctcc tgggtccttc ggtgccaatg 300

gtaacctaat accagccgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360

attatcctgg actctgtgtc tctctctgtt gggctctgtg gcatcacatc aggccaaaat 420

tgccagacca ggaccctaag tgtctgatag aggcgatgat ctttt 465

<210> 192
<211> 330
<212> DNA
<213> Homo sapiens

<400> 192
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caggcttaaa gcaaacatac taggaaatgg ggcagcctgt aagaatgcca gtttgaagt 120

actgactttg gaaaagatca tcgcctctat cagacactta gggctctgtt ctggcaattt 180

tggcctgatg tgatgccaca agaccaaca gagagagaca cagagtccag gataatgttg 240

acagggggta gccctttagg agaaatggcg ctccctgcgg ctggtattag gttaccattg 300

gcaccgaagg aaccaggagg ataagaatat 330

<210> 193
<211> 502
<212> DNA
<213> Homo sapiens

<400> 193
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 ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat ttftatactt 180
 gggagtgtc cttgcacaga gctgtcattt gccagtgaga gcctccgacg gggcaggtac 240
 tgtgccaggg cagctctgaa attatggata ttcttctcct cctggttctc tcggtgccaa 300
 tggtaaccta ataccagccg cagggagcgc catttctcct aaagggtac accactgtca 360
 acattatcct ggactctgtg tctctctctg ttgggtcttg tggtatcaca tcaggccaaa 420
 attgccagac caggacccta agtgtctgat agaggcgatg atcttttcca aagtcagtac 480
 ttacaaactg gcattcttac ag 502

<210> 194
 <211> 410
 <212> DNA
 <213> Homo sapiens

<400> 194
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 aagacattct tactctgac caggcaaaaa cacttcaagg ttgtaaatg actcttctc 120
 gacataaatc ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat 180
 ttftatactt gggagtgtc cttgcacaga gctgtcattt gccagtgaga gcctccgacg 240
 gggcaggtac tgtgccaggg cagctctgaa attatggata ttcttctcct cctggttctc 300
 tcggtgccaa tggtaaccta ataccagccg cagggagcgc catttctcct aaagggtac 360
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<210> 195
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 195
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 actctgatcc aggcaaaaac acttcaaggt ttgtaatga ctcttctctg acataaatcc 120
 tttttatta aaatgcaaaa tgttcttcag aataaaactg tgtaataatt ttftacttg 180
 ggagtgtccc ttgcacagag ctgtcatttg ccagtgagag cctccgacgg gcaggtactg 240

tgccagggca gctctgaaat atggatattc ttacctctcg gttcttcgg tgcaaatggt 300

aacctaatac cagccgcagg gagegccatt tct 333

<210> 196
<211> 282
<212> DNA
<213> Homo sapiens

<220>
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<222> (231)..(231)
<223> a or g or c or t/u

<400> 196
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actctgatcc aggcaaaaac acttcaagg tttgaaatga ctcttctcg acataaatcc 120
tttttatta aaatgcaaaa tgtcttcag aataaaactg tgtaataatt ttatacttg 180
ggagtgcctc ttgcacagag ctgtcatttg ccagtgcag cctccgacgg ngcaggtact 240
gtgccagggc agctctgaat tatggatatt cttatcctcc tg 282

<210> 197
<211> 400
<212> DNA
<213> Homo sapiens

<400> 197
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atactaggaa atgggtgcagc ctgtaagaat gccagttgt aagtactgac ttggaaaag 120
atcatgcctc ctatcagaca cttagggctc tggctcggca atttggcct gatgtgatgc 180
cacaagaccc aacagagaga gacacagagt ccaggataat gttgacagtg gtgtagccct 240
ttaggagaaa tggcgctccc tgcggctggt attaggttac cattggcacc gaaggaacca 300
ggaggataag aatatccata atttcagagc tgcctcggca cagtacctgc cccgtcgag 360
gctctcactg gcaaatgaca gctctgtgca aggagcactc 400

<210> 198
<211> 482
<212> DNA

<213> Homo sapiens

<400> 198

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gaattggctc tatttctct acttctggat agcccgagta aaaatactaa taatttctag 180
attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
acagtaatta caaaatatag accatctctt tacaaataca aattatagga tattacaagg 300
catgtacagt aaatctataa tttaaaca actagtgtat ctaagtttac ctggtgcga 360
gtgcattatt attccagttt acagttgccc itagcgtgac agtcagaaac cgaccatcgg 420
agtgatattc tcttatgtaa actggcgctca catcacagaa aaccttattt atgaggtccc 480
at 482

<210> 199

<211> 459

<212> DNA

<213> Homo sapiens

<400> 199

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ctgagcagag atggttctta gtgaggttct cgctgccagt tgacggtgaa atcatagctg 180
ccattfacat ttgtgagat tatgaaaaac ataagactaa agaaactaaa tgtgttattc 240
ctgtggacac aaaaatgtgt gttttcaga tggggagggg accaaaaagg aaaaacattt 300
catcttaaaa ctttctaag acaaaggaaa acaaaaaacc atgctcctac aacttcaaat 360
ttttcttacc aaagaaaaat ttaatatctg atgagagggt gaaccaggct taaagcagac 420
atactaggga atgggtgcag cctgtaagaa tgccagttt 459

<210> 200

<211> 487

<212> DNA

<213> Homo sapiens

<400> 200

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 tttttatta aaatgcaaaa tgttcttcag aataaaactg tgtaataatt ttatacttg 180
 ggagtgtccc ttgcacagag ctgtcatttg ccagtgagag cctccgacgg ggcaggtact 240
 gtgccagggc agctctgaaa ttatggatat tcttatcctc ctggttcctt cggtgccaat 300
 ggtaacctaa taccagccgc aggagcgcca ttctcctaa agggctacac cactgtcaac 360
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 ttggccagac caggacccca agtgggtctga tagaaggcga tgatctttc caaagtcagt 480
 acttaca 487

<210> 201
 <211> 445
 <212> DNA
 <213> Homo sapiens

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 cctaataatt gtagttcccc actaaaatct agaaattatt agtattttta ctggggctat 180
 ccagaagtag aagaaataga gccaatctc atttattcag cgaaaatcct ctgggggttaa 240
 aattttaagt ttgaaagaac ttgacactac agaaattttt ctaaaatatt ttgagtcact 300
 ataaacctat catctttcca caagatatac cagatgacta ttgcagctct ttctttggg 360
 caagagttcc atgattttga tactgtacct ttggatccac catgggttgc aactgtcttt 420
 ggttttgttt gtttgacttg aacca 445

<210> 202
 <211> 313
 <212> DNA
 <213> Homo sapiens

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 gcagttcaaa tacaatacag taattacaaa atatagacca tctctttaca aatacaaatt 180

atagtatatt acaagtcacg tacagtaaat ctataatctt aaacaaacta gtgtatctaa 240

gtttacctgg ttgcgagtcg attattatc cagtttacag ttgcccttag cgtgacagtc 300

agaaaccgac cat 313

<210> 203

<211> 413

<212> DNA

<213> Homo sapiens

<400> 203

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gagaattggc tctatttctt ctacttctgg atagcccgag taaaataact aataatttct 180

agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240

atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300

gtcatgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt acctggttgc 360

gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa acc 413

<210> 204

<211> 476

<212> DNA

<213> Homo sapiens

<400> 204

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gagaattggc tctatttctt ctacttctgg atagcccgag taaaataact aataatttct 180

agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240

atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300

gtcatgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt acctggttgc 360

gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa accgaccatc 420

ggagtgatat tctcttatgt aaactggcgt cacatcacag aaaaccttat ttattt 476

<210> 205
<211> 406
<212> DNA
<213> Homo sapiens

<400> 205
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tatcatcttt ccacaagata taccagatga ctatttgcag tctttcttt gggcaagagt 180
tccatgattt tgatactgta cctttggatc caccatgggt tgcaactgtc ttgggtttg 240
ttgtttgac ttgaaccacc ctctggtaag taagtgaatt acagagcagg tccagctggc 300
tgctctgccc ctfgggatc catagttacg gttttctctg tggcccaccc aggggtttt 360
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<210> 206
<211> 473
<212> DNA
<213> Homo sapiens

<400> 206
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cataaatcct tttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataatt 180
ttatactgg gagtgctct tgcacagagc tgtcatttgc cagtgagagc ctccgacagg 240
gcaggctactg tgccagggca gctctgaaat tatggatatt ctatctctcc tggttccttc 300
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cactgtcaac attatctgg actctgtgtc tctctctgtt gactcttgtg gcatcacatc 420
aggccaaaat tgccagacca ggaccctaag tgtctgatag aggcgatgat ctt 473

<210> 207
<211> 463
<212> DNA
<213> Homo sapiens

<400> 207
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aagaactga cactacagaa atttttctaa aatatttga gtcactataa acctatcatc 120
ttccacaag atataccaga tgactattg cagtctttc ttgggcaag agtccatga 180
tttgatact gtaccttgg atccaccatg ggttgcaact gtcttggtt ttgtttgtt 240
gacttgaacc accctctggt aagtaagtga attacagagc aggtccagct ggctgctctg 300
ccccctgggt atccatagtt acggttttct ctgtggcca cccaggggtg ttttgcac 360
gctggtgcag aaatgcacag gtggatgaga tatagctgct ctgtcctct ggggactggt 420
ggtgctgctt aagaaataag ggggtgctggg gacagaggag caa 463

<210> 208
<211> 140
<212> DNA
<213> Homo sapiens

<400> 208
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cctgacataa atcctttttg 140

<210> 209
<211> 237
<212> DNA
<213> Homo sapiens

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<222> (229)..(229)
<223> a or g or c or t/u

<400> 209
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ctctatcaga cacttagggc cctggctctgg caattttggc ctgatgtgat gccacaagac 180

ccaacagaga gagacacaga gtccaggnta atattgacag naggtggang cccccct 237

<210> 210

<211> 292

<212> DNA

<213> Homo sapiens

<400> 210

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tcttctaag acattcttac tctgatccag gcaaaaacac ttcaaggttt ggaaatgact 180

cttcctgac ataaatcctt ttattataa atgcaaaagg ttcttcagaa taaaactgtg 240

taataatttt tatactggg agtgctcctt gcacagagct gtcatttgcc ag 292

<210> 211

<211> 434

<212> DNA

<213> Homo sapiens

<400> 211

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atactaggaa atgggtgcagc ctgtaagaat gccagtttgt aagtactgac ttggaaaag 120

atcatgcct ctatcagaca cttagggtcc tggctggca attttgcct gatgtgatgc 180

cacaagacc aacagagaga gacacagagt ccaggataat gttgacagtg gtgtagccct 240

ttaggagaaa tggcgctccc tgcggctggt attagggttac calttggcacc gaagagacca 300

ggaggataag aatatcata atttcagagc tgccttgga cagtacctgc cccgtcgag 360

gctctcactg gcaaatgaca gctctgtgca aggagcactc ccaagtataa aaattattac 420

acagttttat tctg 434

<210> 212

<211> 451

<212> DNA

<213> Homo sapiens

<400> 212

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 ttttattaa aatgcaaaat gttcttcaga ataaaactgt gtaataattt ttatacttgg 180
 gagtgcctct tgcacagagc tgcatttgc cagtgagagc ctccgacggg gcaggtactg 240
 tgccagggca gctctgaaat tatggatatt ctatcctcc tgggtccttc ggtgccaatg 300
 gtaacctaat accagccgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360
 attatcctgg actctgtgtc tctctctgtt gggctctgtg gcatcacatc aggccaaaat 420
 tgccagacca ggaccctaag tgtctgatag a 451

<210> 213
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 213
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 tctttttta taaaatgca aatgttctt cagaataaaa ctgtgtaata attttatac 180
 ttgggagtgc tcttgcaca gagctgtcat ttgccagtga ggcctccga c 231

<210> 214
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 <212> DNA
 <213> Homo sapiens

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 cctttttat taaaatgcaa aatgttcttc agaataaaac tgtgtaataa tttttatac 180
 tgggagtgtc cttgcacag agctgtcatt tgccagtga agcctccgaa ggggcaggta 240
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 acattatcct ggactctgtg tctctctctg ttgggtcttg tggcatcaca tcaggccaaa 420

attgccagac caggacccta agtgtctgat agaggcgatg atctttcca aagtcagtac 480

tta 483

<210> 215

<211> 507

<212> DNA

<213> Homo sapiens

<400> 215

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cacactgaga ggacatcaga gtccaaacac atgcagagaa gctgtcaggg agcagctagg 180

agacacgcag agttgcctca cacgtggcag caggagaagg tgcaacacgg atccgactgc 240

ttaccacta aggacaccaa gaaccagggt aaggacgaaa aatgagccaa ggatgatcag 300

actaacaaaa tacacccatg gccattccca tcctatcgca tcatttacc agtagagcac 360

gtctgtccag cctccatgg tgatgcactg aaacacagta agcatggcaa aggcaaagt 420

atcaaagttg gtgatgcctc cgttcgggcc aaccagcca ctctacatt ccgtgccatt 480

ggcagtacac tggcgccat tcctgt 507

<210> 216

<211> 443

<212> DNA

<213> Homo sapiens

<400> 216

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tttaagaca ttctactct gatccaggca aaaacacttc aaggtttgta aatgactctt 180

tcctgacata aatcctttt tattaaaatg caaaatgttc ttcagaataa aactgtgtaa 240

taatttttat acttgggagt gctccttgca cagagctgtc atttgccagt gagagcctcc 300

gacggggcag gtactgtgcc agggcagctc tgaaattatg gatattctta tcctcctggt 360

tcctcgggtg ccaatggtta cctaatacca gccgcaggga gcgccatttc tcctaaaggg 420

ctacaccact gtcaacatta tcc 443

<210> 217
<211> 305
<212> DNA
<213> Homo sapiens

<400> 217
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gactttggaa aagatcatcg cctctatcag acacttaggg tcctggtctg gcaattttgg 180

cctgatgtga tgccacaaga cccaacagag agagacacag agtccaggat aatgttgaca 240

gtggtgtagc ctttaggag aaatggcgct ccctgcggct ggtattaggt taccattggc 300

accga 305

<210> 218
<211> 376
<212> DNA
<213> Homo sapiens

<400> 218
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tactctgac caggcaaaaa cacttcaagg ttgtaaatg actcttctct gacataaatc 120

ctttttatt aaaatgcaaa atgttcttca gaataaaact gtgtaataat tttatactt 180

gggagtgtc cttgcacaga gctgtcattt gccagtgaga gcctccgacg gggcaggtac 240

tgtgccaggg cagctctgaa attatggata ttcttactct cctggttctt tcggtgccaa 300

tggtaaccta ataccagccg caggggagcgc catttctctt aaagggctac accactgtca 360

acattatcct ggactc 376

<210> 219
<211> 544
<212> DNA
<213> Homo sapiens

<400> 219
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ccaccaatc cagctcattt tgctatcggt ttataacaat taatctgcat tatatttga 120

tccagacaaa taaagcaatt ataatgtat ctactttac aacagacaaa aaaagggcat 180

gctatgaaa ttgtttaa ctcaagcaac aatgctgatt aatttctggt caataatcgt 240
tctatagttc tcttcatga agcctggtga ggttccagga aacagcttga ttgggaagc 300
ctcagcagaa aagaaagcat ctcagaggac acataaaatg tctggcaacc cctcttggcg 360
gccctcatcc agcaaagctt gtgtggtctt ggcaactgtc ctcaggactc tgctttcaag 420
atgaaagagg ttagcttac ccgctcaata caccaagtac aagatttagt acgaaaaatg 480
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tcat 544

<210> 220
<211> 308
<212> DNA
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<400> 220
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tatttttact cgggctatcc agaagtagaa gaaatagagc caatttcat ttattcagcg 180
aaaatcctct ggggttaaaa tttaagttt gaaagaactt gacactacag aaatttttct 240
aaaatatttt gagtcactat aaacctatca tctttccaca agaaaaaaaa acaaaaaaaaa 300
agtcgacg 308

<210> 221
<211> 939
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

<220>
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<223> a or g or c or t/u

<220>
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<223> a or g or c or t/u

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<223> a or g or c or t/u

<220>
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<222> (795)..(795)
<223> a or g or c or t/u

<400> 221
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tggctttggt agaacaagaa actaagctct gatttggctt taaatgagag tgctaaattt 240
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cctctctgcc gctggctcac agctactgtt tccatagaaa tggctgtcgg gatcagtgga 480
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<210> 222
<211> 966
<212> DNA
<213> Homo sapiens

<400> 222
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 aatgagagtg cttaaattcc tttttctaataa aaagaaccta gctaaacatt tatatatact 300
 tttgaacact gaactttctt gttgcagagt taacagctgt tgggggtagc tgacagctgg 360
 atcctgggtgc tgttggtagc atgttacctg aagtgcacag gctggttagcc acacctgaca 420
 ttaacaagtg agtggtaacc tctctgccgc tggctcacag ctactgttgc catagaaatg 480
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 gccctcctgg atgtccctt tgcagatgga gacctggggg ctgagttgac ttctctggcc 780
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 tgtttgaggg tattaatggg tccccgggcg ggctgatcga atcctgggga ctccacgtcc 900
 ctgggggggac aagaatctct tcaacggggg ttccggccg ggagccggag tttttattc 960
 agcggg 966

<210> 223
 <211> 692
 <212> DNA
 <213> Homo sapiens

<400> 223
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 cgctgaataa atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaaata 180
 ctaataattt ctgatttta gtggggaact acaattatta ggacccatgg atattgctgc 240
 agttcaaata caatacagta attacaaaat atagaccatc tctttacaaa tacaattat 300

agtatattac aagtcagtga cagtaaactc ataattttaa acaaactagt gtatctaagt 360
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 aaaccgacca tcggagtgat attctcttat gtaaactggc gtcacatcac agaaaacctt 480
 atttatgagg tccattgcc ctgcataa tcactggttag ctgggtctg acttacttac 540
 acaccgtatt tcagaacage taaacaggaa ccaggacgca gtgtatttgg gggaaagggt 600
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 cacaggtgtg atgacgtca tcaccttaa ct 692

<210> 224
 <211> 595
 <212> DNA
 <213> Homo sapiens

<400> 224
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 acaataaag caattataaa tgtatctcac tttagaacag acaaaaaaag ggcatgctat 180
 ggaaattgtt taaatctcaa gcaacaatgc tgattaattt ctggtaata atcgctctat 240
 agttctcctt catgaagcct ggtgaggttc caggaaacag cttgatttgg gaagcctcag 300
 cagaaaagaa agcatctcag aggacacata aaatgtctgg caaccctctt tggcggccct 360
 catccagcaa agcttgtgtg gtcttggcaa ctgtctcag gactctgctt tcaagatgaa 420
 agaggtgtag ctaccgct caatacacca agtacaagat ttagtacgaa aaatgacca 480
 aagatgacga gactgacaaa atacaccag ggcaattcaa atcccatagc atcattcatc 540
 tgcaagaaat aagatggctc cataggagtg ggtaataag aggatttaat aagga 595

<210> 225
 <211> 999
 <212> DNA
 <213> Homo sapiens

<400> 225
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 aaagatttgt tcacagtgg atgtccctt ttctgaacca tgaagtaata ttgtaatgg 120

agttgaatgc tgacggtag ggtgccgaa agattcaggg tccttcgta ccctcacatg 180
 gcttggttt ggtagaacaa gaaactaagc tctgatttgg cttaaataga gagtgctaaa 240
 ttctctttt ctaataaaga acctagctaa acatttatat atacttttga aactgaact 300
 ttctgtcag cagagttaac agctgtaggg ggtagctgac acggctggat cctggtgctg 360
 ttggtacat ggtacctgaa gtgcacaggc tggtagccac acctgacatt aacaactga 420
 gtggtaacct ctctgccgt ggctcacagc tactgttcc atcagaaatg gctgtcgggc 480
 tcacgtgaa acgaggaag tgaaagtacg ctagatcctt gttccatcac agctgacgct 540
 ctgtttccca tggcaacacc cagcacggac aagccgccac gccgcataga caaccacaac 600
 cagctacagc tctccacaag tcagctcgtg gctatccatc atgtccctga acaagcccac 660
 accaccccc cccaagcagc acagcaacga gcaccaccg gacgaacaa aggacggacc 720
 cccctgccc aacctctgc ccatccgca cagaccgcc aagcaaacac gacaacctaa 780
 caaagcagag ggacagacc atagcgccc ctaccggaag cgtacaccac ttccaacag 840
 taaggccaaa agagcgagc ggagcacgtg aacggataag aaaacgagag aaggcacggc 900
 cgcatggcaa acacaccagc aagcagcaga cagcacgtgg gcacgacaca ggacagaaag 960
 cageccacct cagaggggac caacgaagag tcgcacgac 999

<210> 226
 <211> 695
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (695)..(695)
 <223> a or g or c or t/u

<400> 226
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 gcgagggcaa tgggacctca taaataaggt ttctgtgat gtgacgccag ttacataag 180
 agaatatcac tccggtggtc ggtttctgac tgtcacgcta agggcaactg taaactggaa 240
 taataatgca ctgcacaac ggtaaaccta gatacactag ttgtttaaa attatagatt 300

tactgtacat gacttgaat atactataat ttgtatttgt aaagagatgg tctatatttt 360
 gtaattactg tattgtattt gaactgcagc aatatccatg ggtcctaata attgtagttc 420
 cccactaaaa tctagaaatt attagtattt ttactcgggc tatccagaag tagaagaaat 480
 agagccaatt ctcatattt cagcgaaaa cctctgggg taaaatttta agtttgaaag 540
 aacttgacac tacagaaatt ttctaaaaat attttgagtc actataaacc tatcatcttt 600
 ccacaagata taccagatga ctattgcag tcttttcttt gggcaagagt tccatgattt 660
 tgatactgta cctttggatc caccatgggt tgcan 695

<210> 227
 <211> 870
 <212> DNA
 <213> Homo sapiens

<400> 227
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 ctaactgggt ttctaaacc agccagctgc ctatcaaac agtacaact ttctagaaa 180
 tgcaattggc aaagacactt acgatgctga gaagtacaca aggtgaaact gctccagttt 240
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 gggtggaatg cggagtcctt aggtgagca gagatgggtc ttagtgggt tctcgtgcc 480
 agttgacggt gaaatcatag ctgccattta cattttgtga gattatgaaa aacataagac 540
 taaagaaact aaatgtgtta ttctgtgga cacaaaaatg tgtgttttc agatggggag 600
 gggaccaaaa aggaaaaaca ttcatctta aaacttcct aagacaaagg aaaacaaaa 660
 accatgctct acaactcaa attttctta caaagaaaaa tttaatttc gatgagcagg 720
 ttgaaccagg cttaaagcag acatactagg aaatgggtga gcctgtaaga atgccagttt 780
 gtaagtactg actttggaaa agatcatcgc tctatcagac acttagggtc ctggtctggc 840
 cattttggcc tgatgtgatg caaaagacc 870

<210> 228
<211> 368
<212> DNA
<213> Homo sapiens

<400> 228
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gtagtgtaa gtctttcaa actfaaaatt ttaaccccag aggattttcg ctgaataaat 120
gagaattggc tctatttctt ctacttctgg atagcccag taaaataact aataatttct 180
agattttagt ggggaactac aattattagg acccatggat attgctgcag ttcaaataca 240
atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
gtcatgtaca gtaaattctat tttaacaaa ctagtgtatc taagtttacc tggttgcgag 360
tgcattat 368

<210> 229
<211> 412
<212> DNA
<213> Homo sapiens

<400> 229
cttacaaga aaaatttaatt attcgatgag aggttgaacc aggcttaaag cagacatact 60
aggaaatggg gcagcctgta agaatgccag ttgttaagta ctgactttgg aaaagatcat 120
cgcctctatc agacacttag ggtcctggtc tggcaatttt ggcctgatgt gatgccacaa 180
gacccaacag agagagacac agagtcagg ataattgtga cagtgggtga gcccttagg 240
agaaatggcg ctccctgcgg ctggtattag gttaccattg gcaccgaaga gaccaggagg 300
ataagaatat ccataatttc agagctgccc tggcacagta cctgccccgt cggaggctct 360
cactggcaaa tgacagctct gtgcaaggag cactcccaag tataaaaatt at 412

<210> 230
<211> 610
<212> DNA
<213> Homo sapiens

<400> 230
ccgcgtccgg tcagatggta caagttgtc tctataatta agactttcc accatcacia 60
actttaaca caaagtctaa aatcttgggc agcatagaaa ataggttcta gctaagcagg 120

agttttgtcc tctaccaaga cctttcctga aaatcactta tcaagacagt ttctgtgaag 180
 aaaaagccat atcccagctg attttccttc ctggggccaa aatctgctat tatteggcct 240
 gaaagccttg atgactctgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt 300
 gtatggatgc ttgtgtgtgt gtatggggaa tatgtgatta atgtgtgttg gctgctgttg 360
 tctctgattt ggctactgtt gtttctgatt taaatctaag taaatgttta attaaatgta 420
 tagaatgctg tctctaagt gaccctctct ccttattaaa tctcttatt aaccactcc 480
 tatgagacca tcttatttct tgcagatgaa tgatgctatg ggatttgaat tgccttgggt 540
 gtattttgtc agtcctgtca tctttgggtc atttttctga ctaaatcttg tacttgggtg 600
 attgagcggg 610

<210> 231
 <211> 236
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (195)..(195)
 <223> a or g or c or t/u

<400> 231
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 ttgcacagag ctgtcatttg ccagtgtgag cctcgacagg caggtactgt gccagggcag 120
 ctctgaaatt atggatatcc ttatctctct gggtccttct gtgtcaatg gtaacctaat 180
 accagccgca ggacnccgca ttctcctaa agggctacac cactgtcaac attatc 236

<210> 232
 <211> 427
 <212> DNA
 <213> Homo sapiens

<400> 232
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 ttttctaaaa tattttgagt cactataaac ctatcatctt tccacaagat ataccagatg 120
 actatttgca gtcttttctt tgggcaagag ttccatgatt ttgatactgt acctttggat 180
 ccaccatggg ttgcaactgt ctttgggttt gtttgtttga ctgaaccac cctctggtaa 240

gtaagtaagt gaattacaga gcaggtccag ctggctgctc tgccccttgg gtatccatag 300
 ttacggtttt ctctgtggcc caccagggt gtttttgca tcgctggtgc agaaatgcat 360
 aggtggatga gatatagctg ctctgtcct ctggggactg gtggtgctgc ttaagaaata 420
 aggggtg 427

<210> 233
 <211> 838
 <212> DNA
 <213> Homo sapiens

<400> 233
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 gagcgggcac agtggctcac gcctataatc ccagcacttt cggaggccga ggcagctgga 120
 ccaccgaga tcaggagttt gagaccagcc tgactaaggc agtgaaacct tgtcttact 180
 aaaaatacaa aaattagcca ggcatggtgg cgcattgctg taatcccagc tacttgggag 240
 gctgaggcag gagaatcact tgaaccaggg aggtggagat tgcagtgagc caagactgca 300
 ccattgcatt ccagcctggg tgacaagagc aaaactccat ctcaaaaaaa aaaaaaaaaa 360
 aaaaaaaaaa agacttttct ctattcaac actttaccag catctactga cagaaatgg 420
 acaattgaat ttctccaat atatatacct ctgatatgct tgctttgtaa aagagtagtg 480
 taattgctta caacattgaa aaggttgta ttggggctct ggggtagcca ggatcggc 540
 atgatttgc accatattca gaataaaact gtactgcaat agtgagttaa ttccatatct 600
 tggccaacag agaatttttg gccagtggct actaaggcac acggaagtcc agtctaaaag 660
 ggacagggga ggactcttg tagatagttc ttatgattaa aaaataactt cctatgtgtt 720
 gtagtgatga ttaagctga cagaatgcta aagacacccc ttatgattac ctggtagcaa 780
 agtaccttcc ccacatttaa cctggatttg cccttttggg ttgaaagag gctaaata 838

<210> 234
 <211> 904
 <212> DNA
 <213> Homo sapiens

<400> 234
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aagaggctaa tacgtgaaag atttgttcac agttggatgt cccctttct gaaccatgaa 120
gtaatatattg tgatatggag ttcgaatggc tgaggcttag gtgtgccgag aaagattcag 180
ggctctcgg taccctcaca tggcttggct ttggtagaac aagaaactaa gctctgattt 240
ggctttaaat gagagtgcta aatttcctt ttctaataaa gaacctagct aaacatttat 300
atatactttt gaacctgaa cttcttgtt gcagagtaa cagctgttg gggtagctga 360
cagctggatc ctggtgctgt tggtagcatg gtacctgaag tgcacaggct ggtagccaca 420
cctgacatta acaagtgagt ggtaacctct ctgccgctgg ctcacagcta ctgtttccat 480
agaaatggct gtcgggatca gtggaaacga ggtaagtga agttttcgt gatccttgtt 540
tccatcaagc tgacgtctgt ttccctggca acagcagtgg acagcagcca ggcgctagca 600
acagattcag tagagctctc acttgcagc tgtggctatc atctgttct gaccaagttc 660
ttttttttt tttaataat gtacagaaag acctctgagg acccaggagg cacctctggc 720
cacatgtgcc ctcttgatg ctcttttgc agatggagag ctgtgtgctg agttgacttc 780
tctgtccga gttccccctc cacctgtgct ctgggttgt gatgtgccag ttaaacagg 840
gaggctgctt cagggtatta gtgttgccaa ggggaggctg ttgaaatctg gttgatccca 900
aatc 904

<210> 235
<211> 935
<212> DNA
<213> Homo sapiens

<400> 235
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agatttgtc acagttggat gtccccctt ctgaacctg aagtaatt gtgaatggag 120
ttgaatgctg aggttagggt gccggaaga ttcagggtcc ttccgtacc tcacatggt 180
tggctttgtt agaacaagaa actaagctct gatttggctt taaatgagag tgctaaattt 240
cccttttcta ataaagaacc tagctaaaca ttatatata ctttgaaca ctgaacttc 300
ttgtgcaga gttacagct gttgggggta gctgacagct ggatcctggt gctgttgta 360
ccatggtacc tgaagtgcac aggcgtgtag ccacacctga cattaacaag tgagtggtaa 420

cctctctgcc gctggctcac agctactgtt tccatagaaa tggctgtcgg gatcagtgga 480
 aacgaggtaa gtgaaagttt tcgctgatcc ttgtttccat caagctgacg tctgtttccc 540
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 tcagctgtgg ctatcatctg ttctgacca agttcttttt tttttttta ataattgaca 660
 gaaagacctc tgaggaccca gggagcacct ctggccacat gtgccctcct gaatgctcgt 720
 ttgcaaatag gagagctgtg tgctgagttg acttctctgt ccgcaggtec cctccaact 780
 gtgctcctgg gttgtgatgt gcagggttaa accagggaag ctgttgaagg gtattagtgt 840
 tgccagggaag aggcgtttga attctggttg atcccaaatc cctaggggga agagaaatcc 900
 cttacgagtg gttttcatg gccaggaacc ctata 935

<210> 236
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 236
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 ttttctaaaa tattttgagt cactataaac ctatcatctt tccacaagat ataccagatg 120
 actatttgca gtcttttctt tgggcaagag ttccatgatt ttgatactgt acctttggat 180
 ccaccatggg ttgcaactgt ctttggtttt gtttgtttga ctgaaccac cctctggtaa 240
 gtaagtaagt gaattacaga gcaggctcag ctggctgctc tgccccttgg gtatccatag 300
 ttacgggttt ctctgtggcc caccagggtt gttttttgca tcgctggtgc agaaatgcat 360
 aggtggatga gatatagctg ct 382

<210> 237
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 237
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 gtagtgtcaa gttctttcaa acttaaaatt ttaaccccag aggattttcg ctgaataaat 120
 gagaattggc tctatttctt ctacttctgg atagcccag taaaaatact aataatttct 180

agattttagt ggggaactac aattattagg acccatggat atagctgcag ttcaaataca 240
 atacagtaat tacaaaatat agaccatctc ttacaaata caaattatag tatattacaa 300
 gtcattgtaca gtaaatctat aattttaaac aaactagtgt atctaagttt accaggttgc 360
 gagtgcatta ttattccagt ttacagttgc ccttagcgtg acagtcagaa accgaccatc 420
 ggagtgtat tctcttatgt aaacaggcgt cacatcacag a 461

<210> 238
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 238
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 ctgtagtgc aagttctttc aaacttaaaa tttaacccc agaggatttt cgtgaataa 120
 atgagaattg gctctatttc ttctacttct ggatagcccg agtaaaaaata ctaataattt 180
 ctagatttta gtggggaact acaattatta ggacccatgg atattgctgc agttcaaata 240
 caatacagta attacaaaat atagaccatc tctttacaaa tacaaattat agtatattac 300
 aagtcattga cagtaaatct ataattttaa acaaactagt gtatctaagt ttacctggtt 360
 gcgagtgcatt tattattcca gtttacagtt gcccttagcg tgacagtcag aaaccgacca 420
 tcggagtgat attctcttat gtaactggc gtcacatcac agaaaacctt atttatgagg 480
 tccattgcc ctgcgaataa tcaactgtag ctgggttctg acttacttac acaccgtatt 540
 tcagaacagc taaacag 557

<210> 239
 <211> 481
 <212> DNA
 <213> Homo sapiens

<400> 239
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 ttctgtagtg tcaagttctt tcaaaactaa aattttaacc ccagaggatt ttcgctgaat 120
 aaatgagaat tggtcttatt tcttctactt ctggatagcc cgagtataaa tactaataat 180
 ttctagattt tagtggggaa ctacaattat taggacccat ggatattgct gcagttcaaa 240

tacaatacag taattacaaa atagaccca tctctttaca aatacaaatt atagtatatt 300
acaagtcag tacagtaaata ctataatctt aaacaaacta gtgtatctaa gttacactgg 360
ttgcgagtg attattatc cagtttacag ttgcccttag cgtgacagtc agaaaccgac 420
catcggagtg atattctctt atgtaaactg gcgtcacatc acagaaaacc ttatttatga 480
g 481

<210> 240
<211> 466
<212> DNA
<213> Homo sapiens

<400> 240
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agtgtcaagt tctttcaaac ttaaaatctt aacccagag gatttcgct gaataaatga 120
gaattggctc tatttctctt acttctggat agcccagta aaaatactaa taatttctag 180
attttagtgg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
acagtaatta caaaatatag accatctctt tacaataca aattatagta tattacaagt 300
catgtacagt aaatctataa ttttaacaa actagtgtat ctaagttac ctggtgcga 360
gtgcattatt attccagttt acagttgccc ttagcgtgac agtcagaaac cgaccatcgg 420
agtgatattc tcttatgtaa actggcgtca catcacagaa aacctt 466

<210> 241
<211> 353
<212> DNA
<213> Homo sapiens

<400> 241
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aaagatcaaa cctgagttag ttctaaattc acatacggat ttttttgca tgacgaaatc 120
tattctcttt ttctgacaa ctctccacc tagatgtttg ggaaagttgc catgagagat 180
aacaaccaga tcaataggaa caataacttc cagacgttcc cccaggcggt gctgctgctc 240
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gtccagaggg acggaggaca caggttatta aagcagtggt cctttctcag ttg 353

<210> 242
<211> 526
<212> DNA
<213> Homo sapiens

<400> 242
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ctctgatcca ggcaaaaaca ctcaagggtt tgtaaatgac tctttcctga cataaatcct 120
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ggagtgtccc ttgcacagag ctgtcatttg ccagtgaag cctccgacgg ggcagggtact 240
gtgccagggc agctctgaaa ttatggatat tcttatcctc ctggttcctt cgggtccaat 300
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cattatcctg gactctgtgt ctctctctgt tgggtcttgt ggcatcacat caggccaaaa 420
ttgccagacc aggaccctaa gtgtctgata gaggcgatga tcttttcaa agtcagtact 480
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<210> 243
<211> 750
<212> DNA
<213> Homo sapiens

<400> 243
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aactgtccca gtttttctca tagcagggtc agcaggaaag caagtgggtgc ccttgggtccc 120
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gaaaaacata agactaaaga aactaaatgt gttattctg tggacacaaa aatgtgtgtt 420
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attcgatgag aggttgaacc aggcctaaag cagacatact aggaaatggt gcagcctgta 600

agaatgccag ttgtaagta ctgactttgg aaaagatcat cgcctctatc agacacttag 660
 ggtcctgggc tggcaathtt ggcctgatgt gatgccacaa gaccaacag agagagacac 720
 agagtccagg ataatgtga cagtgggtga 750

<210> 244
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 244
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 tgggggtaaa attttaagtt tgaaagaact tgacactaca gaaatttttc taaaatattt 120
 tgagtcacta taaacctatc atctttccac aagatatacc agatgactat ttgcagtctt 180
 ttctttgggc aagagttcca tgattttgat actgtacctt tggatccacc atgggttgca 240
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 agcaggcca gctggctgct ctgccccttg ggtatccata gttacggttt tctctgtggc 360
 ccaccagggtg tgtttttgc atcgctgggtg cagaaatgca cagggtggatg agatatagct 420
 gctcttgcc tc 432

<210> 245
 <211> 502
 <212> DNA
 <213> Homo sapiens

<400> 245
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 gaattggctc tattttctct acttctggat agcccgagta aaaatactaa taatttctag 180
 attttagtg ggaactacaa ttattaggac ccatggatat tgctgcagtt caaatacaat 240
 acagtaatta caaaatatag accatctctt tacaataca aattatagta tattacaagt 300
 catgtacagt aaatctataa tttaaaca actagtgtat ctaagtttac ctggttgcca 360
 gtgcattatt attccagttt acagttgccc ttagcgtgac agtcagaaac cgaccatcgg 420
 agtgaatctc tcttatgtaa actggcgta catcacagaa aaccttattt atgaggtccc 480

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502

<210> 246
<211> 356
<212> DNA
<213> Homo sapiens

<400> 246
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tagtgtcaag ttctttcaaa cttaaaattt taaccccaga ggattttcgc tgaataaatg 120
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<213> Homo sapiens

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ttaagaagag gtttgaagg tcttcataac aaagtgggtg ttgtattta caaaaaaaaa 180
aaaaaaaaat taacagggtg tctgtatact attaaaaatt ttggaccaa attgctacct 240
atcatctatc ttttgattg cagggaatcc ctgccaagg aacttgacag tcggccta 300
tctgttgaca gaaatgaag ccttgacggt tctaattatc caaagtggg tttcatcag 360
gacgtacagt cagagtgtga gtgcattcta atgaaaact cttcagccct cattcaattg 420
catacaaaag cctcacaaga gaacatacag tacagcagtt ttgtaaaagg caacaatacg 480
attgtacag accccgacac tccaatccta tagatcacca cgttgctcct ctgtccccag 540
cacccttat ttcttaagca gcaccaccag tccccagagg acaagagcag ctatatctca 600
tccacctgtg catttctgca ccagcgatgc anaaaacacc ctggggtggg ccacagagaa 660
aacgtaact atggataccc aaggggc 687

<210> 274
<211> 573
<212> DNA
<213> Homo sapiens

<400> 274
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ttttattaa aatgcaaaat gttctcaga ataaaactgt gtaataatt ttatactgg 180
gagtgtcct tgcacagagc tgcatttgc cagtgagagc ctccgacggg gcaggtagt 240
tgccagggca gctctgaaat tatggatatt cttatctcc tgggtcctc ggtgccaatg 300
gtaaccta ataccagcgca gggagcgcca ttctcctaa agggctacac cactgtcaac 360

attatcctgg actctgtgtc tctctctgtt gggctctgtg gcatcacatc aggccaaaat 420
 tgccagacca ggaccctaag tgtctgatag aggcgatgat ctttccaaa gtcagtactt 480
 acaaactggc attcttacag gctgcacat ttccatgat gtctgcttta agcctggttc 540
 aacctctcat cgaatattaa attttcttt gta 573

<210> 275
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 275
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 aaaatttctg tagggatcaag ttcttcaaa cttaaaattt taacccaga ggattttcgc 120
 tgaataaatg aaaattggct ctatttctc aacttcggga tagcccgagt aaaaatacta 180
 ataatttcta aattttagg gggaactaca attattagga cccatggata ttgctgcagt 240
 tcaaatataa tacagtaatt acaaaatata gaccatctct ttacaatac aaattatagt 300
 atattacaag tcatgtacag taaatctata attttaaaca aactagtga tctaagtta 360
 cctggttgcg agtgcattat tattccagtt tacagttgcc cttagcgtga cagtcagaaa 420
 ccgaccatcg gattgatatt ctcttatgta aac 453

<210> 276
 <211> 415
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (311)..(311)
 <223> a or g or c or t/u

<400> 276
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 gctaatacgt gaaagatttg ttacagttg gatgtccct tttctgaacc atgaagtaat 120
 attgtgaatg gatttgaatg ctgaggtag ggtgccgga agattcaggg tccttcggtta 180
 ccctcacatg gcttggtttt ggtagaaca gaaactaagc tctgatttgg cttaaatga 240
 gagtgctaaa tttctttt ctaataaaga acctagctaa acatttatat atactttga 300

acactgaact ntctgttg agagttaaca gctgttgggg gtagctgaca gctggatcct 360

gggtgctgttg gtaccatggg acctgaagtg cacaggctgg tagccacacc tgaca 415

<210> 277
<211> 646
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (43)..(43)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (573)..(573)
<223> a or g or c or t/u

<400> 277
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ctttggaaaa gatcatcgcc tctatcagac acttaggggc ctggtctggc aattttggcc 180

tgatgtgatg ccacaagacc caacagagag agacacagag tccaggataa tgttgacagt 240

gggtgtagccc tttaggagaa atggcgctcc ctgcggctgg tattaggta ccattggcac 300

cgaaggaacc aggaggataa gaatatccat aatttcagag ctgccctggc acagtacctg 360

ccccgtcgga ggctctcact ggcaaatgac agctctgtgc aaggagcact cccaagtata 420

aaaattatta cacagtttta ttctgaagaa cattttgcat ttaataaaa aaggatttat 480

gtcaggaaag agtcatttac aaacctgaa gtgttttgc ctggatcaga gtaagaatgt 540

cttaagaaga ggtttgtaag gtcttcataa canagtgggt tttgtattt acaaaaaaaaa 600

aaaaaaaaa aataaaaaaaaa aaaaaaaaaa cctcgtgccg aattct 646

<210> 278
<211> 668
<212> DNA
<213> Homo sapiens

<400> 278
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 ttctctgaca taaatccftt ttattaaaa tgcaaaatgt tcttcagaat aaaactgtgt 180
 aataattttt atacttggga gtgctccttg cacagagctg tcatttgcca gtgagagcct 240
 ccgacagggc aggtactgtg ccagggcagc tctgaaatta tggatattct tctctcctg 300
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 ggctacacca ctgtcaacat tctctggac tctgtgtctc tctctgttgg gtcttgtggc 420
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 ttccaaagt cagtacttac aaactggcat tcttacaggc tgcaccattt cctagtatgt 540
 ctgctttaag cctgggtcaa cctctcatcg aatattaaat tttctttgt aagaaaaatt 600
 tgaagtgtga gagcatgggt tttgttttc cttgtctta ggaaagttt aagatgaaat 660
 gtttttcc 668

<210> 279
 <211> 496
 <212> DNA
 <213> Homo sapiens

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 gccaccacg cctggccttc gcccaattct gaaacttctg aggatagagc tggaaagtgc 180
 cacatgggtga agcgagatcc agctgtctgg gtggatgtcg gagtccatag gctgagcaga 240
 gatggttctt agtgagggtc tcgtgccag ttgacgggtga aatcatagct gccatttaca 300
 tttgtgaga ttatgaaaaa cataagacta aagaaactaa atgtgttatt cctgtggaca 360
 caaaaatgtg tgtttttcag atggggaggg gacaaaaag gaaaaacatt tcattctaaa 420
 acttccttaa gacaaaggaa aacaaaaaac catgctctac aacttcaaat tttcttaca 480
 aagaaaaatt taatat 496

<210> 280
 <211> 701
 <212> DNA

<213> Homo sapiens

<400> 280

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ggaaaccatg tcaatcatgt taatagtgt aggagagatt cccctcagca gaccaatacc 120
acccaccgtc cctgcatgt ccaaaggcct tcaattccac ctgcaagtga tactgagaaa 180
ccgctgttcc ctccagcagg aaattcggtg tgtcataacc atcataacca taattccata 240
ggaaagcaag ttccacacac acaaatgcc aatctcaata atgccaatat gtccaaagct 300
gcccattggaa agcggcccag catagggaac ctgagcatg tgtctgaaa tgggcatcat 360
tcttccaca agcatgaccg ggagcctcag agaaggtcca gtgtgaaaag gtccgactca 420
ggagatgaac agtcccaac taltggccgg gaagaccag agatacatgg ctatttcagg 480
cacccccacg gcttggggga gcaggagtat ttcagtagtg aggaatgcta cgaggatgac 540
agctcgccca cctggagcag gcaaaactat ggctactaca gcagataccc aggcagaaac 600
atcgactctg agaggcgcga ggctacatca tccaagatt ctggaggaga tgactcgccg 660
ttgtatgat cagagatct caagagagct atactccac c 701

<210> 281

<211> 515

<212> DNA

<213> Homo sapiens

<400> 281

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ttggctctat ttcttctact tctggatagc ccgagtaaaa atactaataa ttctagatt 180
ttagtgggga actacaatta ttaggacca tggatattgc tgcagttcaa atacaatata 240
gtaattacaa aatatagacc atctctttac aaatccaaat tatagtatat tacaagtcac 300
gtaccgtaaa tctattttta acaaactagg gtatctaagt ttacctggtt gcaagtgcac 360
tattattcca gtttacagt gcccttagcg tgacagtcag aaaccgacca tcggagtgat 420
attctcttat gtaaactggc gtcacatcac agaaaacctt atttattgg gggaaagggt 480
ttaaaaatgg atatgttggg cccagtgcac gatac 515

<210> 282
<211> 258
<212> DNA
<213> Homo sapiens

<400> 282
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gtgatgccac aagacccaac agagagagac acagagtcca ggataatgtt gacagtgggtg 120
tagcccttta ggagaaatgg cgctccctgc ggctgggtatt aggttaccat tggcaccgaa 180
ggaaccagga ggataagaat atccataatt tcagagctgc cctggcacgg tacctgcccc 240
gtcggaggct ctactgg 258

<210> 283
<211> 510
<212> DNA
<213> Homo sapiens

<400> 283
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gacgagcccg acatctccta ccggactttc acaccagcca gcctgactgt cccagcagc 120
ttccggaaca aaaacagcga caagcagagg agtgcggaca gcttgggtgga ggcagtcctg 180
atatccgaag gcttgggacg ctatgcaagg gacccaaaat ttgtgtcagc aacaaaacac 240
gagatcgctg atgcctgtga cctcaccatc gacgagatgg agagtgcagc cagcacctg 300
cttaatggga acgtgcgtcc ccgagccaac ggggatgtgg gccccctctc acaccggcag 360
gactatgagc tacaggactt tggctcctggc tacagcgacg aagggccaga ccctggggagg 420
gatgaggagg acctggcgga tgaatgata tgcatcacca cctttagacc cccagcgagg 480
ggcagactgg ctctggcctc aggtggggcg 510

<210> 284
<211> 405
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (142)..(142)
 <223> a or g or c or t/u

 <400> 284
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 gccacatccc cgttntcgg gacgcacgac ccattaagca ggggtgctggc tgccccctcc 120

 atctgctga tggagaggtc ancaggcatc agcgatttcg tgtttgtgt gcgtgacaca 180

 aattttgggt cccttgata cgcgtccac agccttacgg agtatcagcg actgctctcc 240

 accaatgctg cccgcgactc ctactgcttg tccgctgttt ttggttccgg aagctgctgg 300

 ggacagtcag gctggctggg gtgaaagtcc ggtaggagat gtcgggctcg tctgtgtacc 360

 aggagctgcg gtgcagggac ggcaggctgc cgttcacctg gtccg 405

<210> 285
 <211> 892
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (27)..(27)
 <223> a or g or c or t/u

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 <222> (35)..(35)
 <223> a or g or c or t/u

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 <223> a or g or c or t/u

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 <222> (49)..(49)
 <223> a or g or c or t/u

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 <223> a or g or c or t/u

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<221> misc_feature

<222> (835)..(835)

<223> a or g or c or t/u

<400> 285

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aggacagaat ttaattagaa acaacactaa ccacaagagc ctgacacaac ccaaactcag 180

agcttctgg taatctcaat gcgatggatt cattacacag accatcttat taaaattctc 240

atctgagagc taatcagcat tgaatgcac atttatttta tgacaccaa attaactgca 300

gtgattcttt aagcatgggg acacgtgact cccactctca gccccgaggg atgacagcca 360

agagcctggc ttctgcccaa gattccatcc gtttggctc gcagtgcacg gtcaaccatg 420

atccacaaag cagcaaccg ggggctgtag ctgccgtgat gcgggggtaa gcctggcagg 480

ctgcaactgt tgcagggctc ccaacacagc ccctggacaa acgcgtcagg ggaaaatagg 540

gttacctggc aatcttttc ctctctttt ctccgcttc ttcttctga gcagtgtca 600

gactttcagc atcagccaaa gtgtctacag cgatggccaa gaagacattc agtagaatat 660

ctaattacaa cttttaagg gcacaacaca ctactaatg caactacgtg cggccaacaa 720

tggcaacgcc acacacctct gcatcccggg aagctgggta gtaggtgacg tcccaagtg 780

ttatactcac acagcaaacc tagagtacca gagccctgct ttcaaacaa nacanaacaa 840

acaaacaacc caaagtaaaa cctggtaagg gacgtcttca gaagtaaatt ac 892

<210> 286

<211> 425

<212> DNA

<213> Homo sapiens

<400> 286

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acaggtgaca ctgcaccgag aggtaacgtg gccctcacag cccaccacgc ctggccttcg 120

cccaattctg aaacttcgta ggatagagct ggaaagtggc acatggtgaa gcgagatcca 180

gctgtctggg tggatgtcgg agctccatag gctgagcaga gatggttctt agtgaggttc 240

tcgctgccag ttgacgggta aatcatagct gccatttaca tttgtgaga ttatgaaaaa 300

cataagacta aagaaactaa atgtgttatt cctgtggaca caaaaatgtg tgttttcag 360
 atggggaggg gaccaaaaag gaaaaacatt tcattctaaa actttcctaa gacaaaggaa 420
 aacaa 425

<210> 287
 <211> 441
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (10)..(10)
 <223> a or g or c or t/u

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 gggcaatttt ttcttcatg ttcaactcgg agatccttcg aggacggggg ccggcaggaa 180
 cctcaggttc atctctctcc tcttctctt cctcttcccc tacgggcaca tcgcaaggcg 240
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 tgttggtat ctggttgact tctggttgt tgttctttt atttctagg ctctctttc 360
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 cagcatcagc caaatggtct a 441

<210> 288
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 288
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 tggagatctc cgtgaatcat agcaaacggg cgagtcacgc tctacaaga atcctagtgg 120
 atgatggtag cctcggggcc tctcagagtc gatgtttctg cctgg 165

<210> 289
 <211> 330
 <212> DNA

<213> Homo sapiens

<400> 289

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agaggtcccg tcgtctccca tcttccccca tcgcacggcc ctgcctctgc atctaata 180
gcaacagatc atggcagttg ccggcctaga ttcaagtaa gccagaagt actcaccgag 240
tactcgacc cggccgtggg ccaccctcc agcaaccct ccctaccggg actggacacc 300
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<210> 290

<211> 401

<212> DNA

<213> Homo sapiens

<400> 290

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cctcccaccc cagcatccca ccggagatcc tccttcaact ttgagtgcct gcgccggcag 180
agcagccagg aagaggcccc gtcgtctccc atcttcccc atgcacggc cctgcctctg 240
catctaatagc agcaacagat catggcagtt gccggcctag attcaagtaa agcccagaag 300
tactaccga gtcactcgac ccggtcgtgg gccaccctc cagcaacccc tccctaccgg 360
gactggacac cgtgctacac ccccatgatg acgccgatg a 401

<210> 291

<211> 431

<212> DNA

<213> Homo sapiens

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<223> a or g or c or t/u

<220>

<221> misc_feature

<222> (354)..(355)

<223> a or g or c or t/u

<220>
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<222> (373)..(373)
<223> a or g or c or t/u

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<221> misc_feature
<222> (401)..(401)
<223> a or g or c or t/u

<400> 291
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tctagggcgg caactgccat gatctgttc tgcattagat gcagaggcag ggccgtgcga 180
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aagttgaagg aggatctccg gtgggatgct ggggtgggag gtagtaggcg tctccttgga 300
gatctccgtg aatcatagca nacgggcgag tcatcgtcct ccaagaatcc ttgnngatga 360
tggtagcctc ggngcctctc agagtcgatg ttctgcctg ngatctgct cgggcgagcc 420
ggtaccgagc t 431

<210> 292
<211> 330
<212> DNA
<213> Homo sapiens

<400> 292
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tctagggcgg caactgccat gatctgttc tgcattagat gcagaggcag ggccgtgcga 180
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aagttgaagg aggatctccg gtgggatgct ggggtgggag gtagtaggcg tctccttgga 300
gatctccgtg aatcatagca aacgggcgag 330

<210> 293
<211> 183
<212> DNA
<213> Homo sapiens

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<222> (42)..(42)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (70)..(70)
<223> a or g or c or t/u

<220>
<221> misc_feature
<222> (133)..(133)
<223> a or g or c or t/u

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ccaaaatttn tttagcaaac aaaacacgaa atcgctgatg cctgtaacct caccatcgac 120
gagatggaga gtncagccag caccctgctt aatgggaacg tgcgtccccg agccaacggg 180
gat 183

<210> 294
<211> 132
<212> DNA
<213> Homo sapiens

<400> 294
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tcggaggctc tcactggcaa atgacagctc tgtgcaagga gcaactccaa gtataaaaat 120
tattacacag tt 132

<210> 295
<211> 358
<212> DNA
<213> Homo sapiens

<400> 295
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ccaagtataa aaattattac atagttttat tctgaagaac attttgcatt ttaataaaaa 180
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taagaatgtc ttaagaagag gtttgaagg tcttcataac aaagtgggtg ttgtattta 300

caaaaaaaaa aaaaaaaaaa atttttatac cgggtttgtc tgtatacaa tttctctg 358

<210> 296

<211> 289

<212> DNA

<213> Homo sapiens

<400> 296

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ataaacctat catctttcca caagatatac cagatgacta ttgcagtct tttctttggg 180

caagagtcc atgatttga tactgtacct ttgatccac catgggttgc aactgtctt 240

ggttttgtt gtttgacttg aaccaccctc tggaaagcta ctctgaaa 289

<210> 297

<211> 889

<212> DNA

<213> Homo sapiens

<400> 297

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ccaaggatat cgaaggcttg ttgggagcgg gaggggggcg gaatctgtgc gccactccc 180

tctctgacca gccaccagc gcgctacgt tgatgcctgt gtcaatatgc cccctgac 240

tgcaggtc ggggagcggc caaaagcaat gccacccta tgctctgggg gtgccaggg 300

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tccgggacct accaggccta tgtcaggtg ctggacgtgt cctgtgtgc agactctggg 540

tgtccgtgga gcaccggaca ttggctcgt gtggcctgtg gccggtacca gtctgggct 600

ctcgtgtgt ggctggacac gccggttg ttcgctggag accgcacca ccaggttcct 660

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gggcgaagaa agctttccga cgcaggcgct tgcggagctg gcgggacatc gggacacttc 780
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<210> 298
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 <213> Homo sapiens

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 ccaaggatat cgaaggcttg ctgggagcgg gaggggggcg gaatctggtc gccactccc 180
 ctctgaccag ccaccagcg gcgcctacgc tgatgcctgc tgtcaactat gcccccttg 240
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 gatatccgg aacctaccag cctatggcca gttacctga cgtgtcttg gtgcagactc 540
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<211> 727

<212> DNA

<213> Homo sapiens

<400> 299

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ctgaccagcc acccagcggc gcctacgctg atgcctgctg tcaactatgc ccccttgat 240

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acgtccccag ctcccgtgcc ttatggttac ttggaggcg ggtactactc ctgccgagtg 360

tcccgagct cgtgaaacc ctgtgccag gcagccacc tggccgcgta ccccgcgag 420

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tatccgggaa cctaccagcc tatggccagt tacctggacg tgtctgtggt gcagactctg 540

ggtgctcctg gagaaccgcg acatgactcc ctgttcctg tggacagtta ccagtctgg 600

gctctcctg gtggctggaa cagccagatg tgttgcagg gagaacagaa cccaccaggt 660

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ctttcgt 727

<210> 300

<211> 793

<212> DNA

<213> Homo sapiens

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gctccatgga gcccggaat tatgccacct tggatggagc caaggatatc gaaggcttgc 180

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agaacagaac ccaccaggtc ccttttggaa ggcagcattt gcagactcca gcgggcagaa 720

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<211> 614
<212> DNA
<213> Homo sapiens

<400> 302
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cgccagatta ccatctggtt tcagaaccgc cgggtcaaag agaagaaggt tctcgccaag 180
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ggttcccaaa gaacctggcc cagtcataat caticatcct gacagtggca ataatacga 480
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<211> 318
<212> DNA
<213> Homo sapiens

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ccaggttctt tggaaccct ggtggagtgg gctgtcacat ggggttcctg ctccctgcac 240
atactgggta cccaggccgc tcctgaggaa cagtccagca accagtggcc tggaagggt 300
gttgtctcta ggggcctc 318

<210> 304
<211> 1483
<212> DNA
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gaggacattc cgcgggagcg cccaccgtg ggctacgtgg gtcgcgaccc ggcggggcgc 1440

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<211> 758
<212> DNA
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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ccactcccct ctgaccagcc acccagcggc gcctacgtg atgcctgtg tcaactatgc 240
ccccttgat ctgccaggct cggcggagcc gccaaagcaa tgccacccat gccctgggg 300
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cacgaacccc acccgttcc ccttttggg aaagggcagc cattttggc agccttcaa 720
gcggggccaa ccacccctc ccttgacag gccctggt 758

<210> 306
<211> 476
<212> DNA

<213> Homo sapiens

<400> 306

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ctgctgagag gccctagag acaacacct tcccaggcca ctgctgctg gactgttct 360
caggagcggc ctgggtacc agtatgtga gggagacgga acccatgtg acagccatt 420
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<210> 307

<211> 552

<212> DNA

<213> Homo sapiens

<400> 307

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ctcgccaagg tgaagaacag cgctaccct taagatatct ccttgcctgg gtgggaggag 240
cgaaagtggg ggtgtcctgg ggagaccagg aacctgcca gcccaggctg gggccaagga 300
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ctccaccagg gtcccaaag aacctggccc agtcataatc attcatctg acagtggcaa 480
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tctgtagagc ac 552

<210> 308

<211> 447

<212> DNA

<213> Homo sapiens

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 caggagcggc ctgggtaccc agtatgtgca gggagacgga acccatgtg acagcccact 420
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 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 309
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 tctctagggg ccttcaaca aagtccttg cccagcctg ggcttggcag gttcctggtc 360
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<210> 310
 <211> 405
 <212> DNA
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 <223> a or g or c or t/u

<220>
 <221> misc_feature

<222> (380)..(380)

<223> a or g or c or t/u

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aagaaggttc tcgccaaggt gaagaacagc gctaccctt aagagatctc ctgcctggg 180

tgggaggagc gaaagtgggg gtgtcctggg gagaccagga acctgccaag cccaggctgg 240

ggccaaggac tctgctgaga ggcccctaga gacaacaccc ttcccaggcc actggctgct 300

ggactgttcc tcaggagcgg cctgggtacc catgtatgtg caggagacg gaaccccatg 360

tgacagccca ctccaccagn gttctaaag aaccctggcc agtea 405

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<211> 369

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

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<223> a or g or c or t/u

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<221> misc_feature

<222> (318)..(318)

<223> a or g or c or t/u

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cctacgtga tgctgtgt caactatgcc ccttggatc tgccaggctc ggcggactct 300

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cttatggtt 369

<210> 312

<211> 374

<212> DNA
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<210> 313
<211> 337
<212> DNA
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<211> 452
<212> DNA
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 gaaaccgctt tcatgaattg agctaattat gaatagattt ggaaggggaa aaaagtggaa 420
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<210> 315
 <211> 358
 <212> DNA
 <213> Homo sapiens

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 aggggtggctg cctgggcacc agggtttcag cgagctccgg gacactcggc aggagtagta 300
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<210> 316
 <211> 474
 <212> DNA
 <213> Homo sapiens

<400> 316
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<211> 739
<212> DNA
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<222> (730)..(730)
<223> a or g or c or t/u

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cgacatgact cctgntgcc tgtggacagt taccagtctt gggctctcgc tgggtgctgg 660
aacagccaga tgtgtgnca gggagaacag aaccaccag gtccctttg gaaggcagat 720
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<210> 318
<211> 924
<212> DNA

<213> Homo sapiens

<400> 318

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ccctgttgcc tgtggacagt taccagtctt gggctctcgc tgggtggctgg aacagccaga 240
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<223> a or g or c or t/u

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 nggcatgggt ggcattgctt tggcggctcc gccgagctg gcagatcaa gggggcatag 480
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 aactcagtgg ggcggctggg gtactcttcc ccggcgtggg agtctccgcg gggtagcgcg 300
 ccagggtggc tgcctgggca cagggtttca gcgagctccg ggacactcgg caggagtagt 360
 accgcctcc aaagtaacca taaggcacgg gagctgggga cgtcccctgg ggcaccccag 420
 ggcatgggtg gcattgctt ggccggctcc cgcagcctgg cagatccaag gnggcatagt 480

tgacagcagg catcagcgta ngcgccgctg ggtggctgtc aagagg 526

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<211> 471
<212> DNA
<213> Homo sapiens

<400> 321
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cagatgtgtt gccagggaga acagaaccca ccaggtccct ttggaaggc agcatttgca 180
gactccagcg ggcagcacc tcctgacgc tgcgccttc gtcgcgccg caagaaacgc 240
attccgtaca gcaaggggca gttgcgggac tggagcggga gtatgcggct aacaagttca 300
tcaccaagga caagaggcgc aagatctcgg cagccaccag cctctcggag cgccagatta 360
ccatctggtt tcagaaccgc cgggtcaaag agaagaagg tctcgccaag gtgaagaaca 420
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<211> 545
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

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caccacagac acgtccaggt aactggccat aggctggtag gttcccggat atcccggata 240
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gtacgcggcc aggggtggctg cctgggcaca gggtttcagc gagctccggg acactcggca 360
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acccanggc catgggtgca ttgcttggc ggctccgccg agccctgcag atccaaggtg 480

ggcatattga cagcaggcat tcacgtatgc gccccctggg tggctgtcat attggggatt 540

gcgac 545

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<223> a or g or c or t/u

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<223> a or g or c or t/u

<220>
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<222> (415)..(415)
<223> a or g or c or t/u

<220>
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<222> (419)..(420)
<223> a or g or c or t/u

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agactggtaa ctgtccacag gcaacaggga gtcattgtgc ggttctccag gagcaccag 180

agtctgcacc acagacacgt ccaggtaact ggccataggc tggtaggttc ccggatatcc 240

cggatagaag gcaaactcag tggggcgact ggggtactct tcccggccgt ggggagtctc 300

cgcggggtag cgggccaggg gtggctgcct gggcaccagg ggtttcagcg agctccggga 360

cactcngcag gaaantagta cccgcctccc aaagtaacca taagcaccgg actgngggnn 420

ggacgtcccc tggggcac 438

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<211> 370

<212> DNA
<213> Homo sapiens

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aggagcacc agagtctgca ccacagacac gtccaggtaa ctggccatag ctaggtaggt 240
tcccggatat cccggataga aggcaaactc agtggggcga ctgggggtact ctccccggc 300
cgtgggagtc tccgcggggt acgcccattg gtggtgcct gggcacaggg ttcagcgag 360
ctccgggaca 370

<210> 325
<211> 495
<212> DNA
<213> Homo sapiens

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agactggtaa ctgtccacag gcaacaggga gtcatgtcgc ggttctccag gagcaccag 180
agtctgcacc acagacacgt ccaggtaact ggccatagge tggtaggttc ccggatatcc 240
cggatagaag gcaaactcag tggggcgact ggggtactct tccccggccg tgggagtctc 300
cgcggggtac gcggccaggg tggctgcctg ggcacagggt ttcagcgagc tccgggacac 360
tcggcaggag tagtaccgc ctccaaagta accataagge acgggagctg gatgcgtccc 420
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caaggaggca ctgtt 495

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<211> 408
<212> DNA
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ccacaggcaa cagggagtc tgcgcgggtt ctccaggagc acccagagtc tgcaccacag 180
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ccagggtggc tgcctgggca cagggtttca gcgagctccg ggacactcgg caggagtagt 360
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<210> 327
<211> 344
<212> DNA
<213> Homo sapiens

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caggggtggt gcctgggcac agggtttcag cgagctccgg gaca 344

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<211> 334
<212> DNA
<213> Homo sapiens

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tccacaggca acagggagtc atgcgcgggt tctccaggag caccagagtc ctgcaccaca 180
gacacgtcca ggtaactggc cataggctgg taggttccc gatatcccgg atagaaggca 240
aactcagtgg ggcggtggg gtactcttcc ccggccgtgg gagtctccgc ggggtacgcg 300
gccagggtgg ctgcctgggc acagggtttc agcg 334

<210> 329
<211> 288
<212> DNA
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<223> a or g or c or t/u

<400> 329
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tctcctggc aacacatctg gctgtccag ccaccagcga gaccaagac tgtaactgt 120
ccacaggcaa caggagtcga tgcgcggtt ctccaggagc acccagagtc tgcaccacag 180
acacgtccag gtaactggcc ataggtnggt aggttcccgg atatcccga tagaaggcaa 240
actcagtggg gcggtgggg tactcttccc cgcccgtagg agtctccg 288

<210> 330
<211> 343
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (238)..(238)
<223> a or g or c or t/u

<220>
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<222> (300)..(300)
<223> a or g or c or t/u

<220>
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<222> (321)..(321)
<223> a or g or c or t/u

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acgtccaggt aactggccat aggtcggtag gtcccggat atcccggata gaaggcaaac 180
tcagtggggc gactggggta ctctccccg gccgtgggag tctccgagg gtacggcnac 240
agggtggctg cctgggcaca gggtttcagc gagctccggg acactcggca ggagtagtan 300

ccgcctcaaa gtaaccataa ngcacgggag ctggggacgt ccc

343

<210> 331
<211> 441
<212> DNA
<213> Homo sapiens

<220>
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<222> (379)..(379)
<223> a or g or c or t/u

<400> 331
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gagagcccaa gactggtaac tgtccacagg caacagggag tcatgtcgcg gtttccagg 180
agcaccaga gtctgcacca cagacacgtc caggtaactg gccataggct ggtaggttcc 240
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gggagtctcc ggggggtacg cggccagggt ggctgcctgg gcacagggtt tcagcgagct 360
ccgggacact cggcggagnt agtaccgcc tccaaagtaa ccataaggca cgggagctgg 420
ggaaccgtcc cctggggcac c 441

<210> 332
<211> 729
<212> DNA
<213> Homo sapiens

<400> 332
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gagcgggagg ggggcggaat ctggtgccc actccccctc gaccagccac ccagcggcgc 180
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cccagccgc ccactgagt ttgccttcta tccgggatat ccgggaacct accagcctat 480
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 ccagatgtgt tgccagggag aacagaacct accaggtccc ttttgaag gcagcatttg 660
 cagactccag cggcaggacc tctgaacgc ctgcgccttt cgtcgcggcg tctaaagtaa 720
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<210> 333
 <211> 502
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> (301)..(301)
 <223> a or g or c or t/u

<220>
 <221> misc_feature
 <222> (479)..(479)
 <223> a or g or c or t/u

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 aatgcgccgg caggcccccc acccccagcc taaggtgcag gaaggaccag cacgaaccg 180
 ctggctttgc tgcgcggcca ggagatgagt cccaccgggc actgagccca ggtacaggac 240
 atcagagaat gaacacagag gcagaggccc tcatgtccct ctacaggtcc cggctctgca 300
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 ggaaaacagg gttggcacca ctctgccact ccgtttgtgc ctgggaaggg ctaagtatgc 420
 aaggctacaa acatctactt cactgggatc ccaaatgtc aacaaacat gacctgctnt 480
 ggtcagaacc accagaaata tt 502

<210> 334
 <211> 282
 <212> DNA

<213> Homo sapiens

<400> 334

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gtccatgga gcctggcata ttatgccacc ttggtatgga gccaaggata tcgaaggctt 180
gtgggagcg ggaggggggc ggaatctggt cgccactcc cctctgacca gccaccagc 240
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<210> 335

<211> 381

<212> DNA

<213> Homo sapiens

<220>

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<222> (201)..(201)

<223> a or g or c or t/u

<400> 335

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gcaacaggga gtcattgtcg ggtctccag gaggaccag agtctgcacc acagacacgt 180
ccaggtact ggccataggt nggtaggctc ccgatatcc cggatagaag gcaaacctag 240
tggggcggtc ggggtactct tccccggccg tgggagtctc cgcgggtac gcgcacaggg 300
tggctgctg ggcacagggt ttcagcgagc tccgggacac tcggcaggag tagtaccgc 360
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<210> 336

<211> 405

<212> DNA

<213> Homo sapiens

<400> 336

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cgggtgtcc agacttcagg cctgtgcgt caatcgtgga gaatgcgcg gcagcccca 120
ccccagcct aaggtgcagg aaggaccagc acgaaccgc tggctttgct gcgcggccag 180

gagatgagtc ccaccgggca ctgagcccag gtacaggaca tcagagaatg aacacagagg 240
cagaggccct catgtccctc tcagagtcct ggctctgcaa agagcccgtc tgtctccagc 300
ttccagaatt ccgcactgtg aatctgtcta cgtggactgg gaaaacaggg ttggcaccac 360
tctgccactc cgtttgtgcc tgggaagggc taagtatgca aggct 405

<210> 337
<211> 328
<212> DNA
<213> Homo sapiens

<400> 337
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ccctccttgt ccaccata ggggtgacc actggtctg gaagcaccca tccttaatac 240
gatgatttt ctgtcgtgtg aaaatgaagc cagcaggctg cccctagta gtccttctt 300
ccagagaaaa agagattga gaaagtga 328

<210> 338
<211> 320
<212> DNA
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<400> 338
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tcacagccac acaacgaatc tgcccgttcc cctctctca gtcttctgc tgttaccagg 300
gtgagagggtg taatggaagg 320

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<211> 321
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<213> Homo sapiens

<400> 339

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ggtgagaggt gtaatggaag g 321

<210> 340

<211> 354

<212> DNA

<213> Homo sapiens

<400> 340

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aatgcgccgg caggcccccc acccccagcc taaggtgcag gaaggaccag cacgaaccg 180

ctggctttgc tgcgcggcca ggagatgagt cccaccgggc actgagccca ggtacaggac 240

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aagagcccgt ctgtctccag ctccagaat tccgactgt gaatctgtct acgt 354

<210> 341

<211> 448

<212> DNA

<213> Homo sapiens

<400> 341

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448

<210> 342

<211> 223

<212> DNA

<213> Homo sapiens

<400> 342

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aaggactctg ctgagaggcc cctagagaca acaccttcc caggccactg gctgctggac 180

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<212> DNA

<213> Homo sapiens

<400> 343

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gttctttggg aacctgtgtg gagtgggctg tcacatgggg ttccgtctcc ctgcacatac 120

tgggtacca ggccgctcct gaggaacagt ccagcag 157

<210> 344

<211> 344

<212> DNA

<213> Homo sapiens

<400> 344

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atgaacacag aggcagaggc cctcatgtcc ctctcagagt cccggctctg caaagagccc 300

gtctgtctcc agcttcaga attccgact gtgaacctcg tgcc 344

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<210> 346
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<212> DNA
<213> Homo sapiens

<400> 346
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<212> DNA
<213> Homo sapiens

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aatcaccat taatttctc ccccaaact tctgagtct ccctaatat ttctgggtg 480
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<223> a or g or c or t/u

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tgttttccca gtccacgtag acagattcac agtgcggaat tctggaagct ggagacagac 660

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<210> 349

<211> 473

<212> DNA

<213> Homo sapiens

<400> 349

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taatatttct ggtggttctg accaaagcag gtcattggtt gttgagcatt tgggatccca 180

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gagtgggtgcc aacctgttt tccagtgcca cgtagacaga ttcacagtgc ggaattctgg 300

aagctggaga cagacgggct ctttgacag cggggactct gagagggaca tgagggcctc 360

tgcctctgtg ttcattctct gatgtcctgt acctgggctc agtccccgtt gggactcatc 420

ttctggggcg gcagcaaagc cagcgggttc gtgctggtcc ttctgcacc tta 473

<210> 350

<211> 514

<212> DNA

<213> Homo sapiens

<400> 350

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ggctgtctct tctccctcc ttgtccacc catagggtgt acccactggt ctggaaaca 180

cccatcctta atacgatgat tttctgtcg tgtgaaaatg aagccagcag gctgcccta 240

gtcagtcctt cttccagag aaaaagagat ttgagaaagt gcctgggtaa ttcaccatta 300

atttctccc ccaaactctc tgagtcttcc cttaatattt ctggtgggtc tgaccaaagc 360

aggctcatgt ttgttagca ttgggatcc cagtgaagta gatgtttgta gccttgcata 420

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cacgtagaca gattcacagt gcggaattct ggaa 514

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<211> 477
<212> DNA
<213> Homo sapiens

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gcaccttagg ctgggggtgg ggggcctgcc ggcgcattct ccacattga gcgcacaggc 420
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<210> 352
<211> 355
<212> DNA
<213> Homo sapiens

<400> 352
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gcagagtggg gccaacctg ttttccagt ccacgtagac agattcacag tgcggaattc 180
tggaagctgg agacagacgg gctctttgca gagccgggac tctgagaggg acatgagggc 240
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<210> 353
<211> 490
<212> DNA
<213> Homo sapiens

<400> 353
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tagcccttcc 490

<210> 354
<211> 403
<212> DNA
<213> Homo sapiens

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ccactcccct ctgagcagcc acccagcggc gcctacgctg atgcctgctg tcaactatgc 240
ccccttgat ctgccaggct cggcggagcc gccaaagcaa tgccacccat gccctggggt 300
gccccagggg acgtccccag ctcccggtcc ttatggttac ttggaggcg ggtactactc 360
ctgccgagtg tcgcggagct cgctgaaacc ctgtgccag gca 403

<210> 355
<211> 562
<212> DNA
<213> Homo sapiens

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<223> a or g or c or t/u

<400> 355
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attcgttgtg tggctgtgat gtccgttag cattttctc agctgacagc tgggtagtg 240
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gtcttggaac caccatcct taatacgtg attttctgt cgtgtgaaa tgaagccagc 360
aggtgcgcc tagtcagtc ttcctccag agaaaaagag attgagaaa gtgcctgggt 420
aatcaccat taattctc cccaaactc tctgagctt ccctaatat ttctggtggt 480
tctgacaaa gcaggtcag gttgttgag catttggat ccagtgag tanatgttg 540
tagcctgca tacttagccc tt 562

<210> 356
<211> 463
<212> DNA
<213> Homo sapiens

<400> 356
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cagctgtcag ctgagaaaa tgctaaacgg acatcacagc cacacaacga atctgccctg 180
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tgaaagcgg ttctaaagt ctctacagag ctctagatag aaaatatgag gctaacgatc 360
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ggccagggtc ttgggaacc ctggtggagt gggctgtcac atg 463

<210> 357
<211> 198
<212> DNA
<213> Homo sapiens

<400> 357
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ccaggttctt tgggaacct ggtggagtgg gctgtcacat ggggttccgt ctccctgcac 120
atactgggta cccaggccgc tcctgaggaa cagtcagca cagggttca gcgagctccg 180

ggacactcgg cctcgtgc

198

<210> 358

<211> 320

<212> DNA

<213> Homo sapiens

<400> 358

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gactgactag gggcagcctg ctggcttcat ttacacacca caaaaaaatc atcgtattaa 120

ggatgggtgc ttccaaaacc agtgggtaca ccctatgggg tggacaagga gggaggaaaa 180

aacagcctct acaattgtcc acctaccag ctgtcagctg aaaaaaatgc taaacggaca 240

tcacagccac acaacgaate tgcccgttcc cctctctca gtcttctgc tgttaccagg 300

gtgaaaggtg taatggaagg 320

<210> 359

<211> 421

<212> DNA

<213> Homo sapiens

<400> 359

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taaggtgcag gaaggaccag cacgaacccg ctggctttgc tgcgcggcca ggagatgagt 180

cccaccgggc actgagccca ggtacaggac atcagagaat gaacacagag gcagaggccc 240

tcatgtcct ctcagagtcc cggctctgca aagagcccg ctgtctccag ctccagaat 300

tccgcactgt gaatctgtct acgtggactg ggaaaacagg gttggcacca ctctgccact 360

ccgtttgtgc ctgggaaggg ctaagtatgc aaggctacaa acatctactt cactgggatc 420

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421

<210> 360

<211> 272

<212> DNA

<213> Homo sapiens

<400> 360

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<210> 361
 <211> 679
 <212> DNA
 <213> Homo sapiens

<400> 361
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 gacatgactc cctgttgct gtggacagt accagtctt ggctctcgt ggtggctgga 660
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 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 362
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<210> 363
<211> 504
<212> DNA
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<223> a or g or c or t/u

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<211> 451
<212> DNA
<213> Homo sapiens

<400> 364
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<212> DNA
<213> Homo sapiens

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<212> DNA
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<210> 367

<211> 575

<212> DNA

<213> Homo sapiens

<400> 367

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<210> 368

<211> 684

<212> DNA

<213> Homo sapiens

<400> 368

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<210> 369
<211> 855
<212> DNA
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<210> 370
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<212> DNA

<213> Homo sapiens

<400> 370

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<211> 1026

<212> DNA
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<400> 371

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<212> DNA
<213> Homo sapiens

<400> 372

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 aatgccaccc atgccctggg gtgccccagg ggacgtcccc agtcccgtg ccttatggtt 420
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catttgggat cccagtgaag tagatgttg tagccttgca tacttagccc ttcccaggca 240
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<210> 376

<211> 508

<212> DNA

<213> Homo sapiens

<400> 376

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tctgagtctt cccttaatat ttctggtggt tctgacaaa gcaggctatg gttgttgag 180

catttgggat cccagtgaag tagatgttg tagccttgca tacttagccc ttcccaggca 240

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gacatgaggg cctctgcctc tgtgttcatt ctctgatgc ctgtacctgg gctcagtgcc 420

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<211> 284

<212> DNA

<213> Homo sapiens

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<223> a or g or c or t/u

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<222> (269)..(269)

<223> a or g or c or t/u

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acagaggcag aggccctcat gtccctctca ggtcccggc tctgcaaaga gccctctgt 180

ctccagcttc cagaattccg cactgtgaat ctgtctacgt ggactgngaa aacagggttg 240

gcaccactct gccactccgt ttgtgcctng gggcgggcag aggg 284

<210> 378

<211> 651

<212> DNA

<213> Homo sapiens

<400> 378

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cttggatgga gccaaggata tcgaaggctt gctgggagcg ggaggggggc ggaatctggt 180

cgcccaactcc cctctgacca gccaccacg ggcgcctacg ctgatgcctg ctgtcaacta 240

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ggtgccccag gggacgtccc cagctcccg gccttatggt tactttggag gcgggtacta 360

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ggtgcagact ctgggtgctc ctggagaacc gcgacatgac tcctgttgc ctgtggacag 600

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<211> 498

<212> DNA

<213> Homo sapiens

<400> 379

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cccaccaggt ccttttggga aggcagcatt tgcagactcc agcgggcagc accctcctga 180

cgctcgccc ttctgcgag gccgcaagaa acgattccg tacagcaagg ggcagttgag 240

ggagctggag cgggagtatg cggctaaca gtatcatcacc aaggacaaga ggcgcaagat 300

ctcggcagcc accagcctct cggagcgcca gattaccatc tggttcaga accgccgggt 360

caaagagaag aaggttctcg ccaaggtgaa gaacagcgct accccttaag agatctcctt 420
gcctgggtgg gaggatctaa agtgggggtg tcctggggag accaggaacc tgccaagccc 480
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<211> 233
<212> DNA
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ggaacctgcc atcaccaggc tgggccaag gactctgtg agaggcccct agagacaaca 180
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<210> 381
<211> 539
<212> DNA
<213> Homo sapiens

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<210> 382
<211> 240
<212> DNA
<213> Homo sapiens

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 atcgaaggct tgcctgggagc gggagggggg cggaatctgg tcgcccactc ccctctgacc 180
 agccaccag cggcgcctac gcttcatgcc tgcctgtcaa ctatgcccc ttggatctgc 240

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 <212> DNA
 <213> Homo sapiens

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 ttcgtctctc ccaccaggc aaggagatct ctaaggggt agcgctgttc ttcacctgg 420
 cgagaacctt cttctcttg aaccggcggg gcggcgtggg gtaccgagc 469

<210> 384
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 tctgagtctt ccctaatat ttctgggtg tctgacaaa gcaagtcatg gttgttgag 180
 catttgggat cccagtgaag tagatgttg tagccttgca tacttagccc ttcccagga 240
 caaacggagt ggcagagtgg tgccaacct gtttcccag tccacgtaga cagattcaca 300
 gtgcggaatt ctggaagctg gagacagacg ggctctttgc agagccggga ctctgagagg 360
 gacatgaagg cctctgcctc tgtgttcatt ctctgatgc ctgtacctgg gctcagtgcc 420

cggtgggact catctcctgg ctgcgcagca aagccagcgg gttcgtgctg gt 472

<210> 385
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<212> DNA
<213> Homo sapiens

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<211> 320

<212> DNA
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<211> 459
<212> DNA
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<223> a or g or c or t/u

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<223> a or g or c or t/u

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agacttctg ggagcgggag gggggcgga tctggtcgcc cactccctc tgaccagcca 240
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gctgaaacct tgtgcccann canccacct ggccgcgtg 459

<210> 389

<211> 156

<212> DNA

<213> Homo sapiens

<400> 389

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atctctggc tgcgcagcaa agccagcggg ttcgtgctgg tccttctgc accttcggct 120

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<210> 390

<211> 467

<212> DNA

<213> Homo sapiens

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<400> 390

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tgcagggaga cggaaccca tgtgacagcc cactccacca gggtcccaa agaacctggc 300

ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagta ctacttgcca 360

tgatcgtag cctcatatti tctatctaga gctctgtag gcactttaga aaccgctttc 420

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<210> 391

<211> 666

<212> DNA

<213> Homo sapiens

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cggcgcctac gctgacgcct gctgtcaact atgccccctt ggatctgcca ggctcggcgg 240

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catttg

666

<210> 392

<211> 664

<212> DNA

<213> Homo sapiens

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tctctagcgc tctcagcacc aatgggetca gacctccca ccgcctgctg cttttctac 180

accgcgagga agcttctcg caactttgtg gtagattact atgagaccag cagcctctgc 240

tccagccag ctgtggtatt ccaaaccaaa agaagcaagc aagtctgtgc tgatccagct 300

gaatctggg tccaggagta cgtgtatgac ctggaactga actgagctgc tcagagacag 360

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 catttgattc tgtgtgtttt cataataaaa ctttaaataa aaatgcaaaa aaaaaaaaaa 660
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<400> 393
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 acacacaggg gctgccagaa gctgccggtt tcgtgggagg cattacaagc gggagttcag 180
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<213> Homo sapiens

<400> 410

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<212> DNA

<213> Homo sapiens

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